

Fig 1

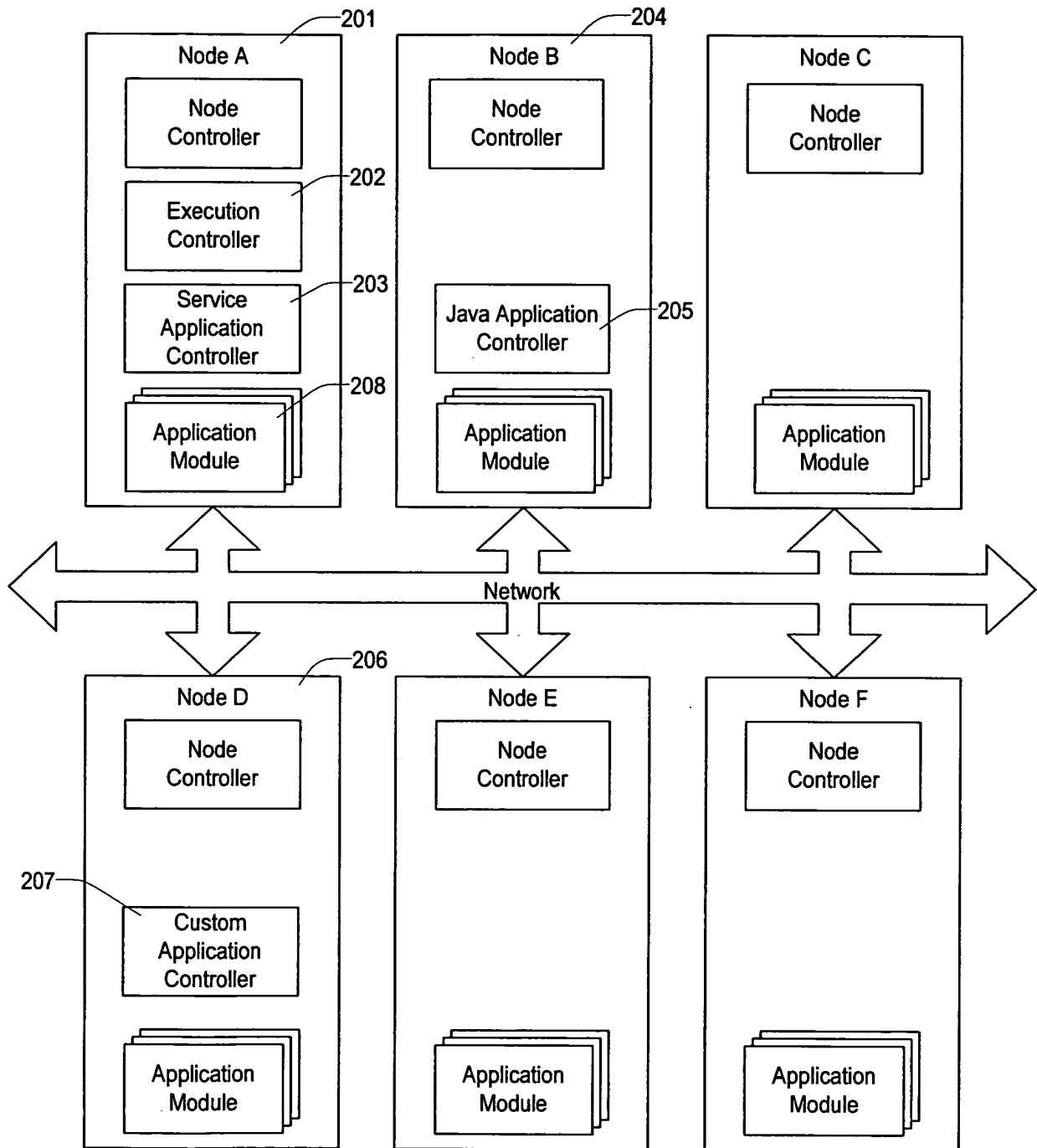


Fig 2

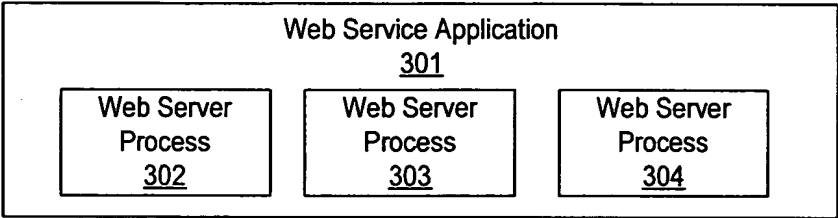


Fig 3

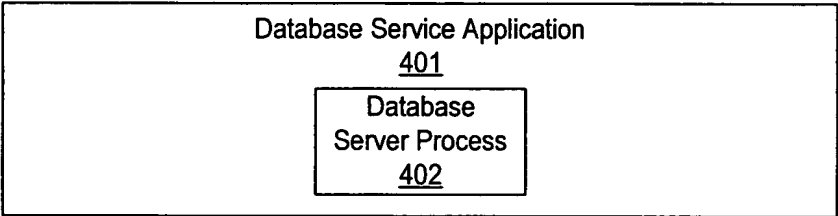


Fig 4

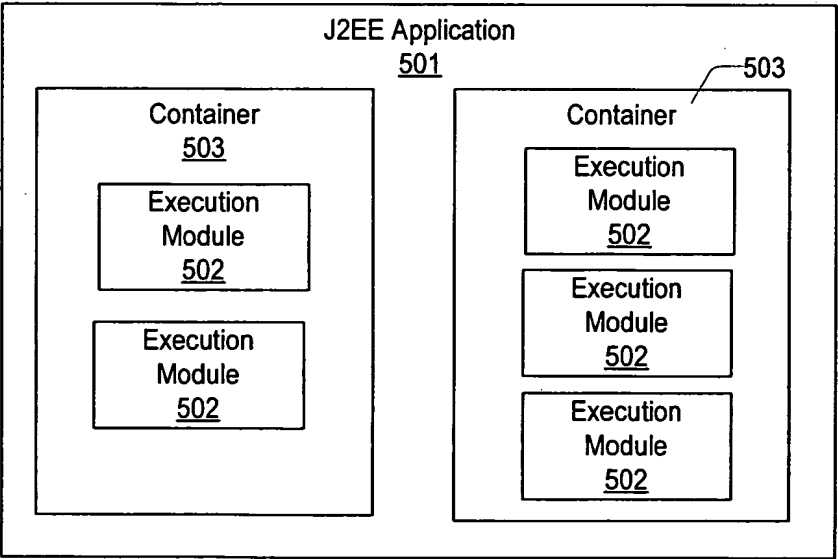


Fig 5

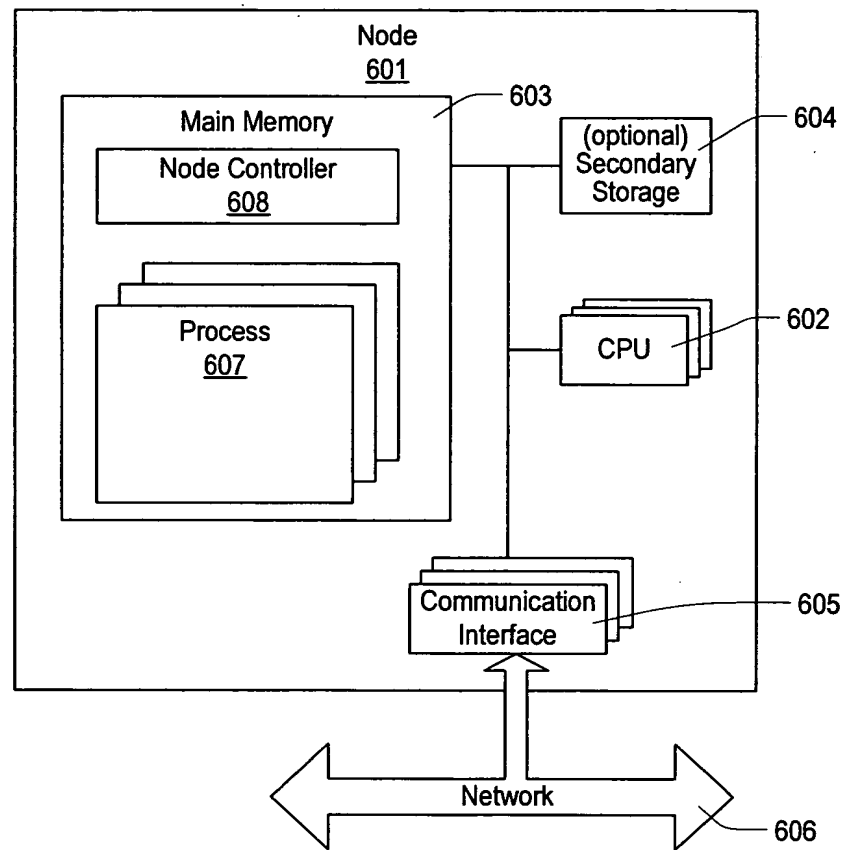


Fig 6

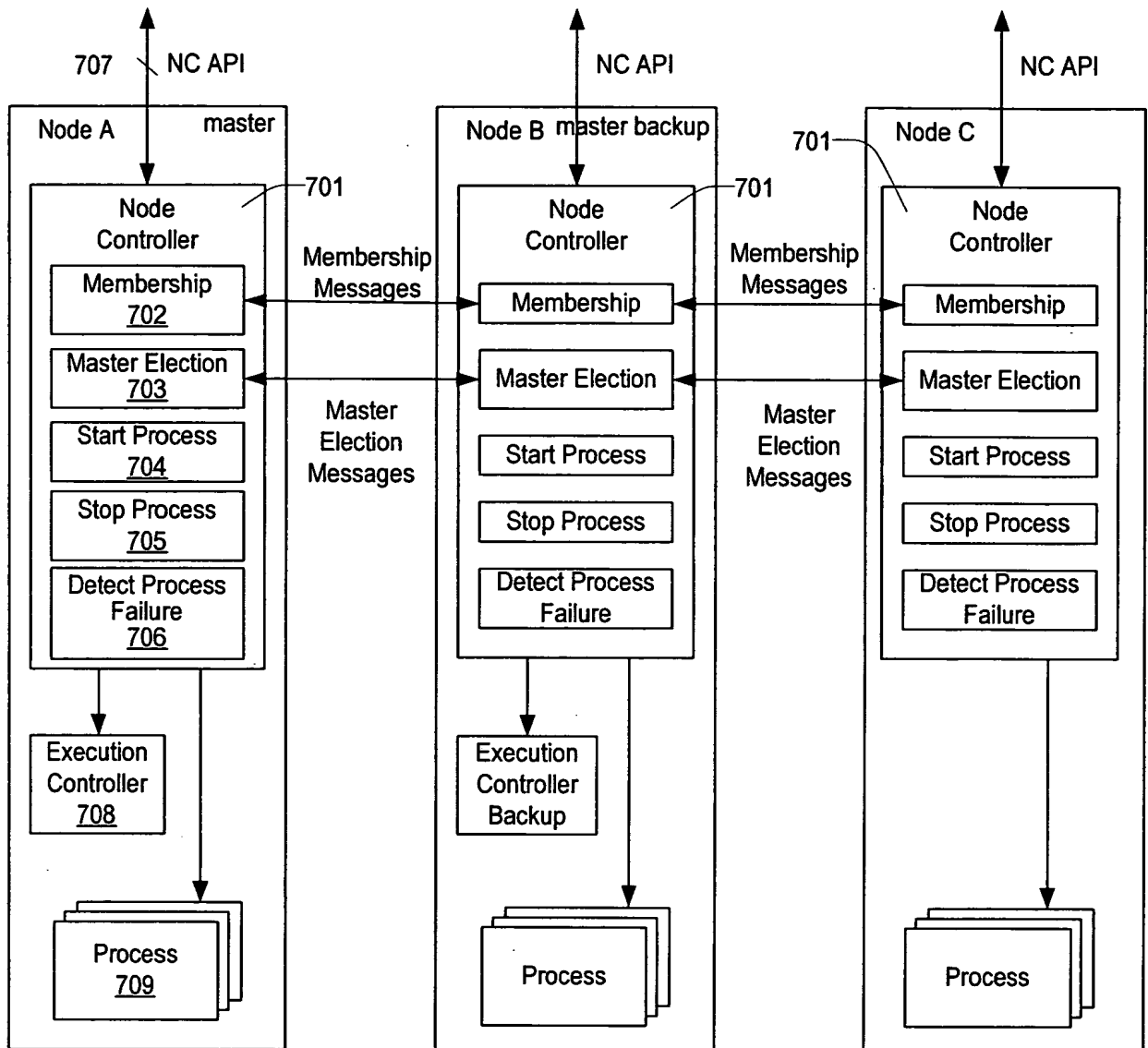


Fig 7

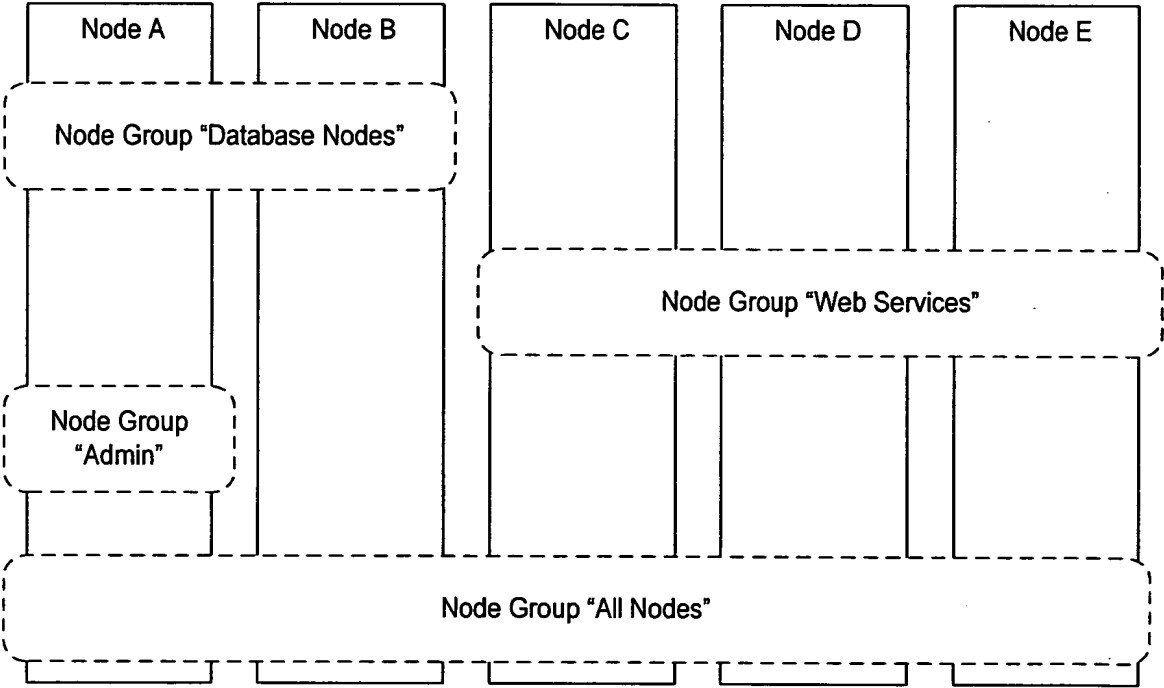


Fig 8

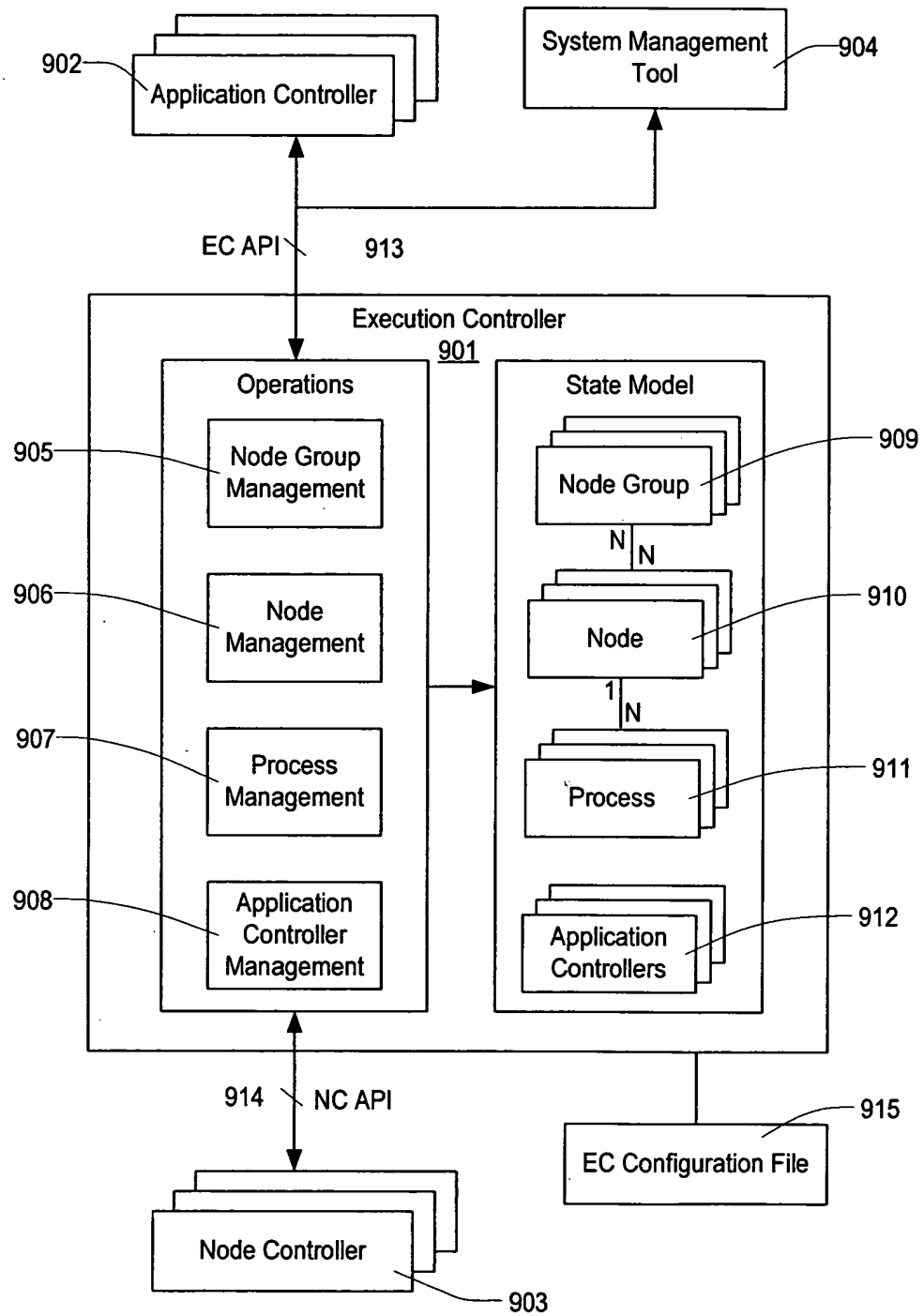


Fig 9

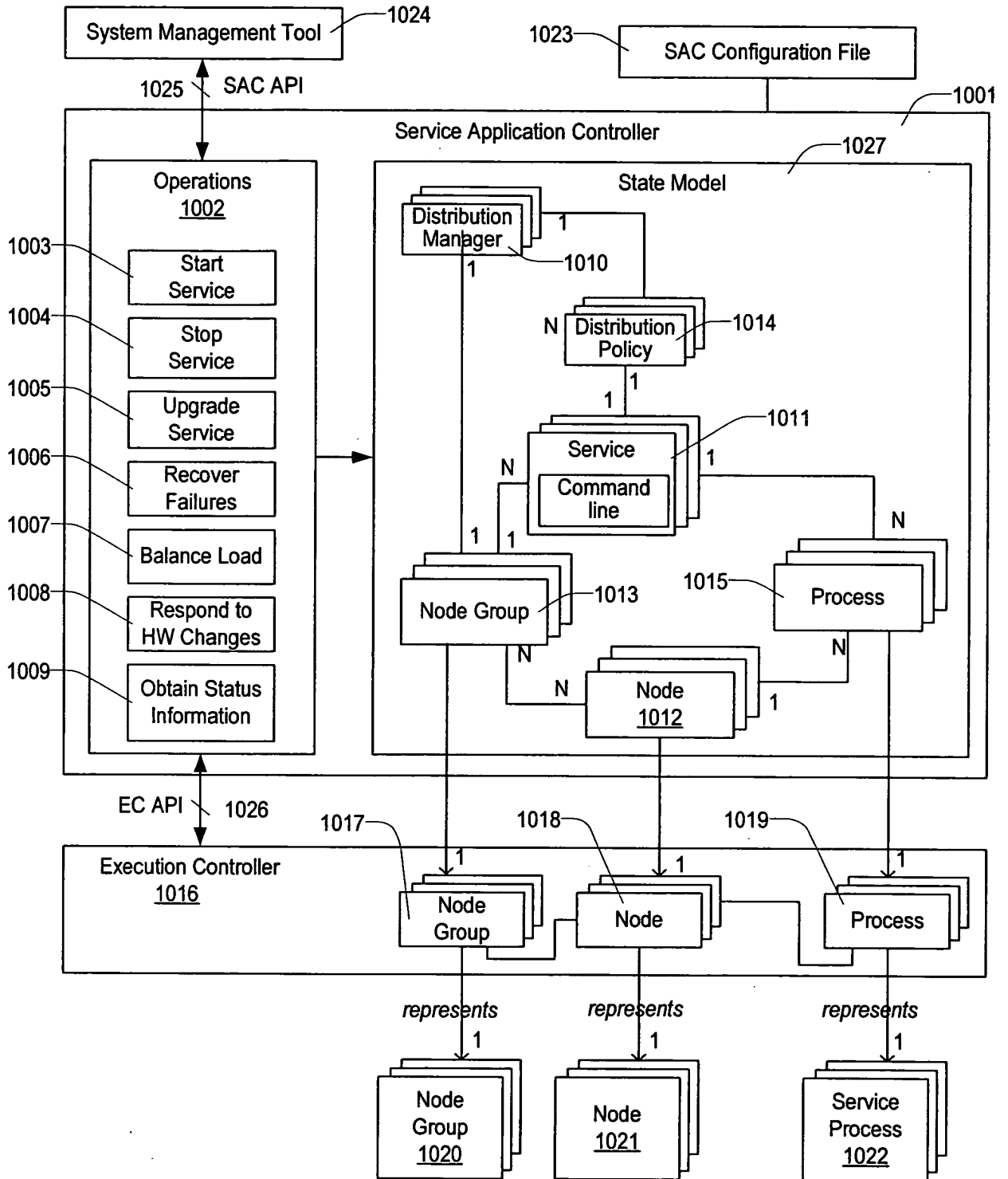


Fig 10

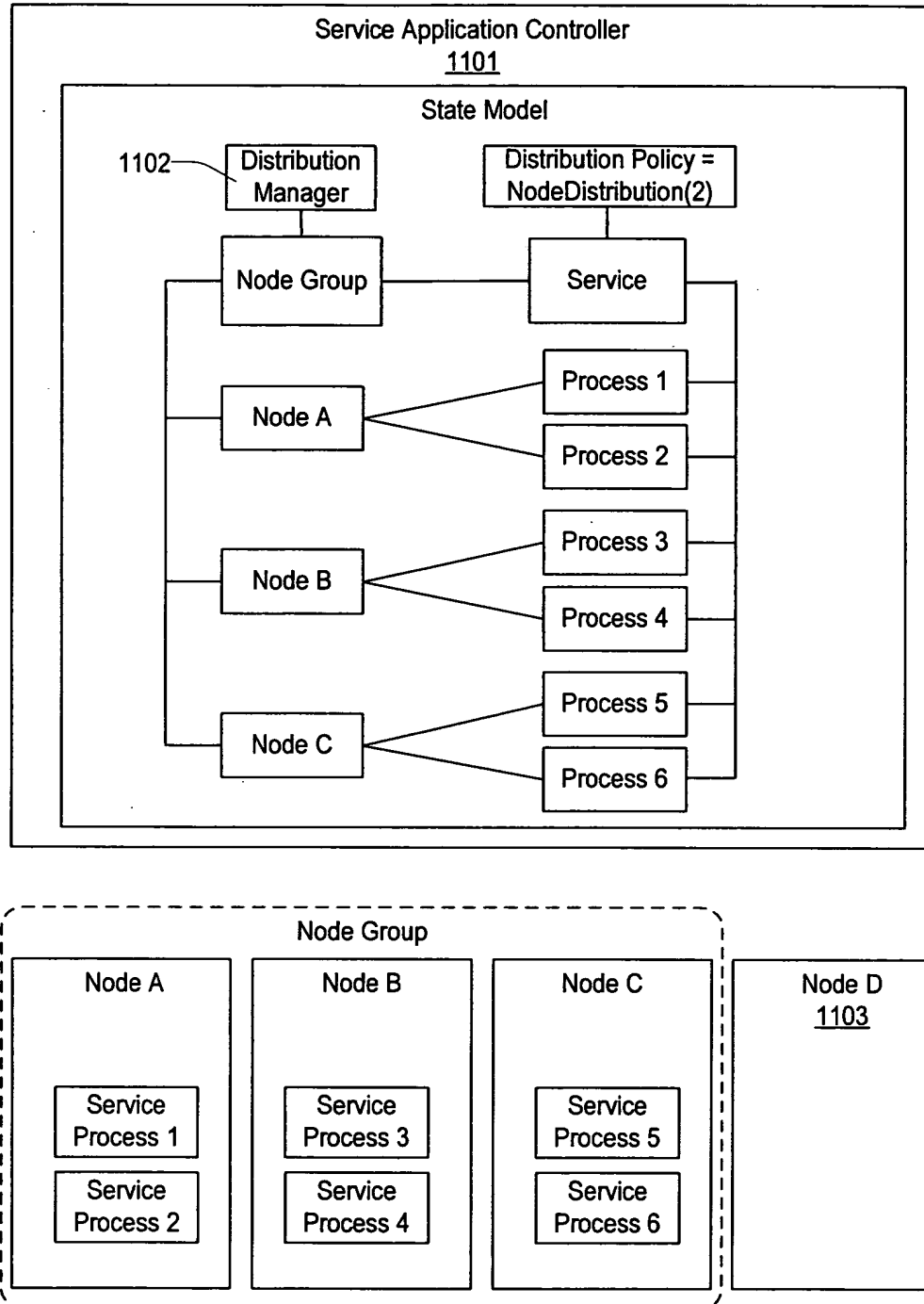


Fig 11

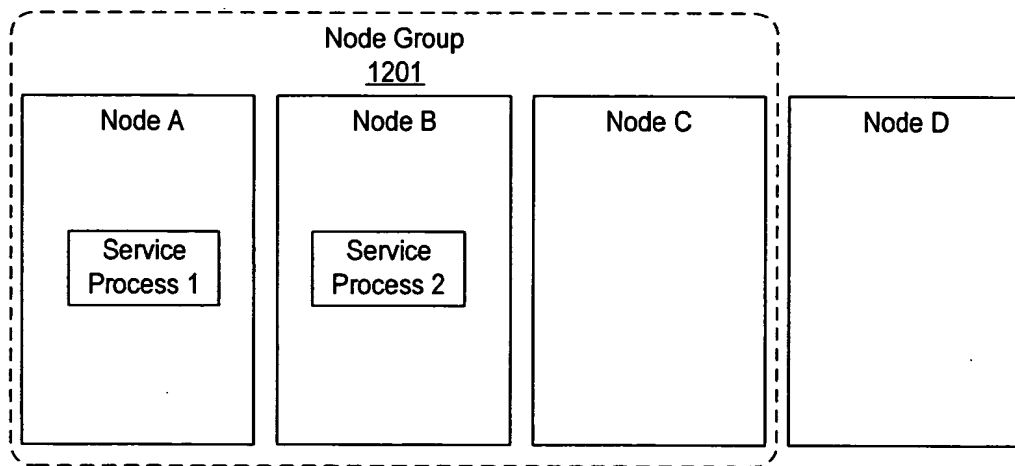
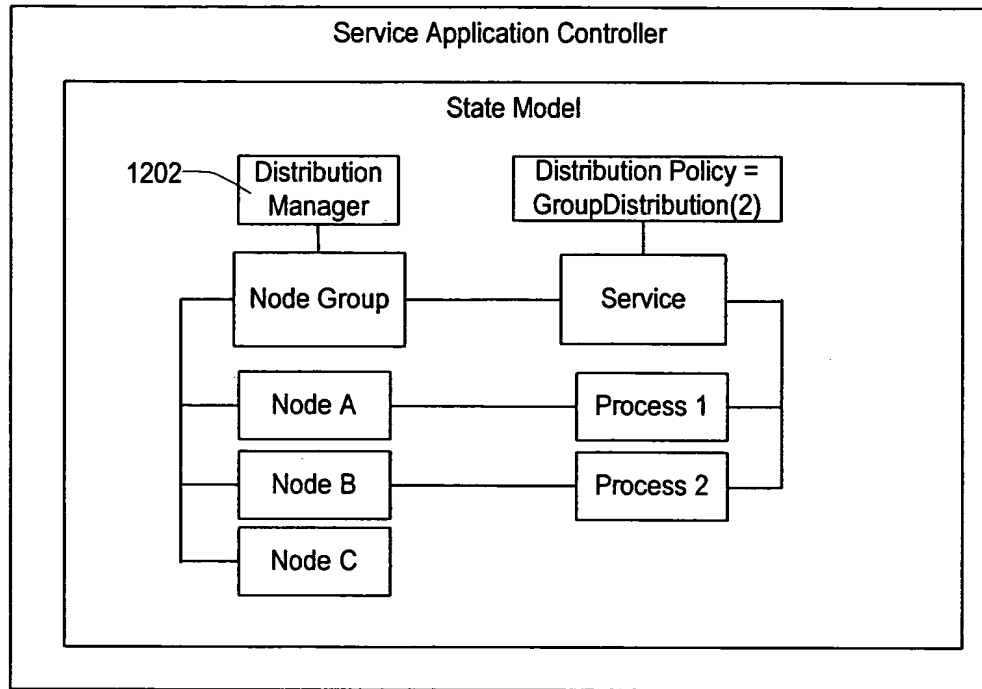


Fig 12

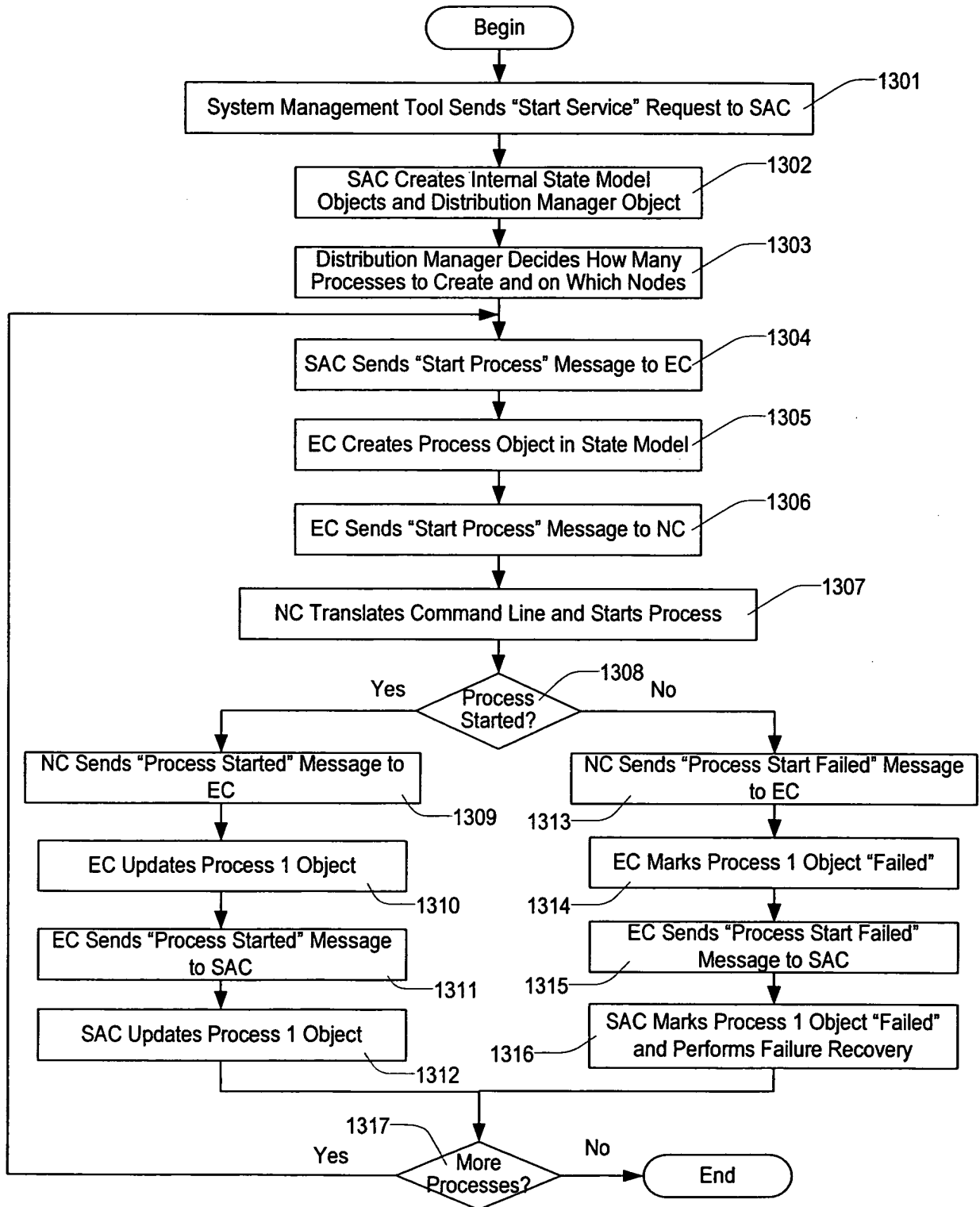


Fig 13

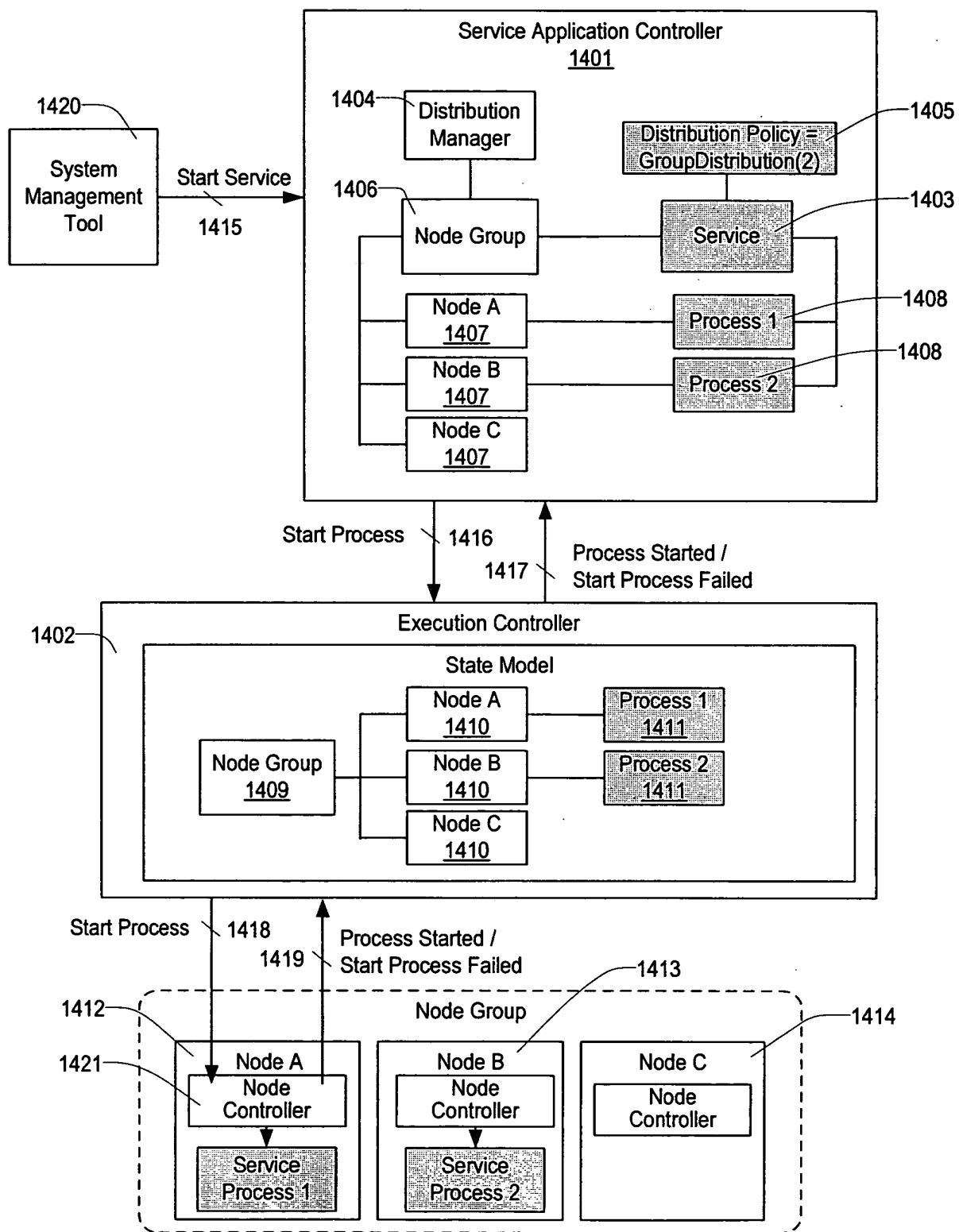


Fig 14

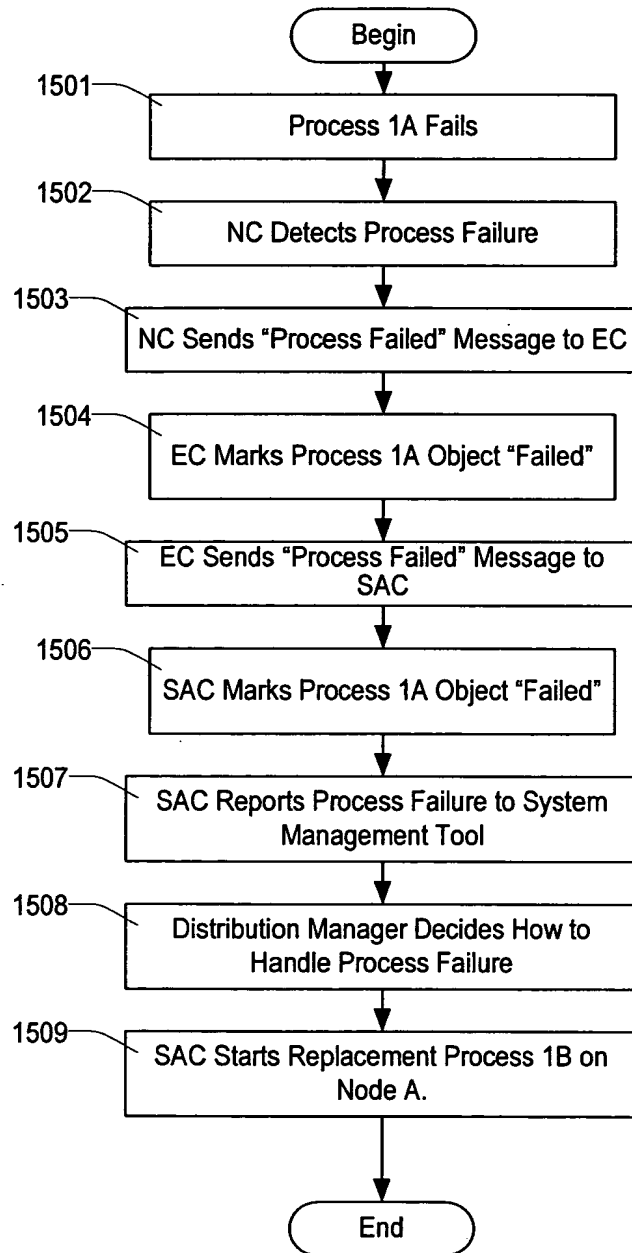


Fig 15

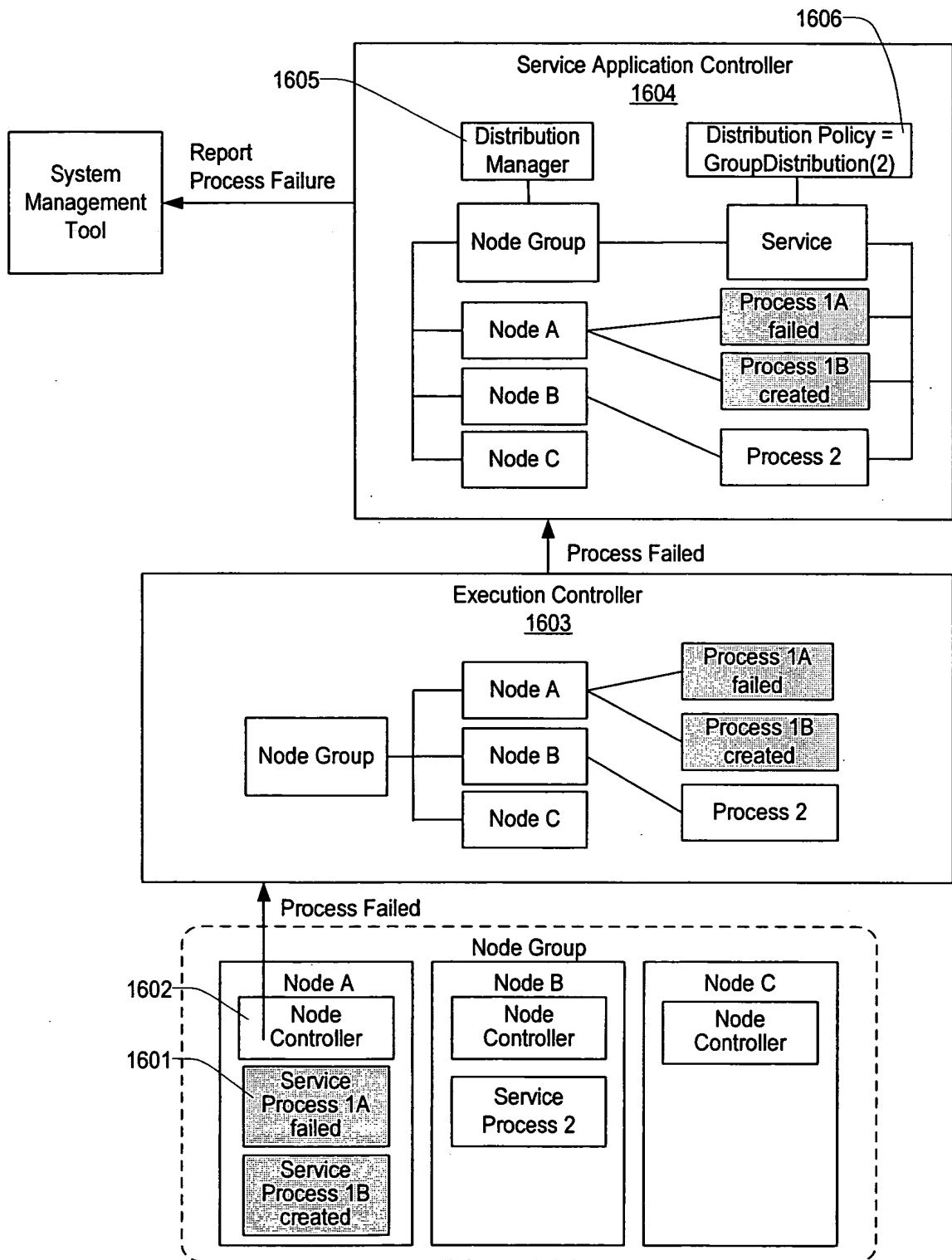


Fig 16

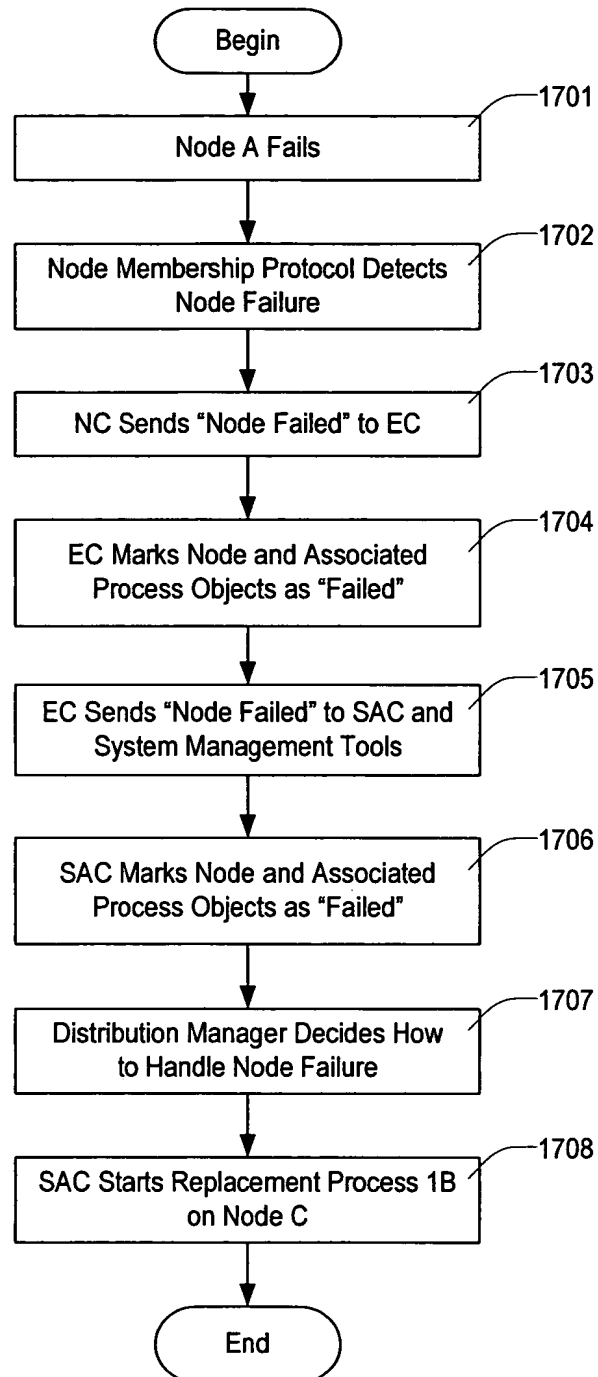


Fig 17

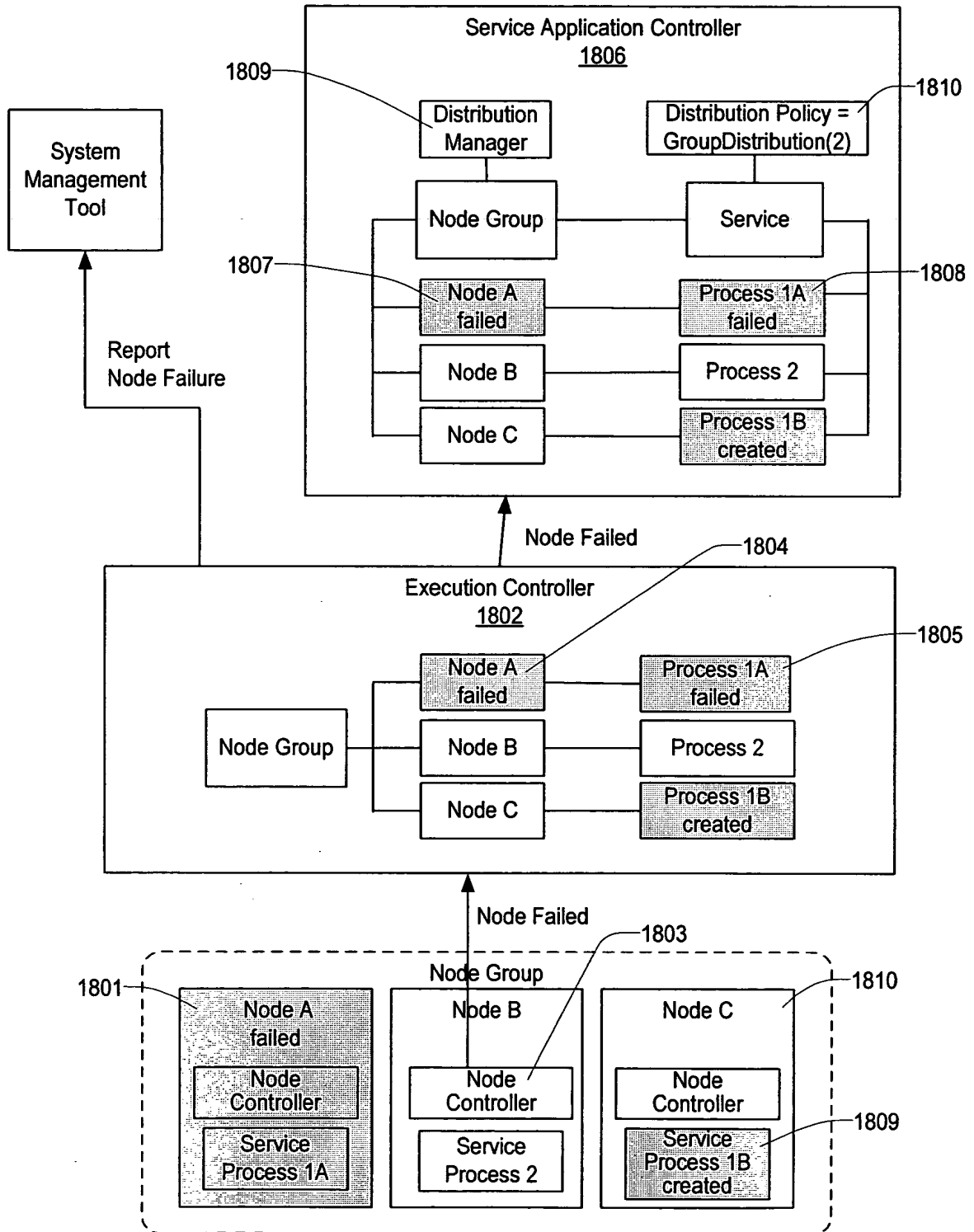


Fig 18

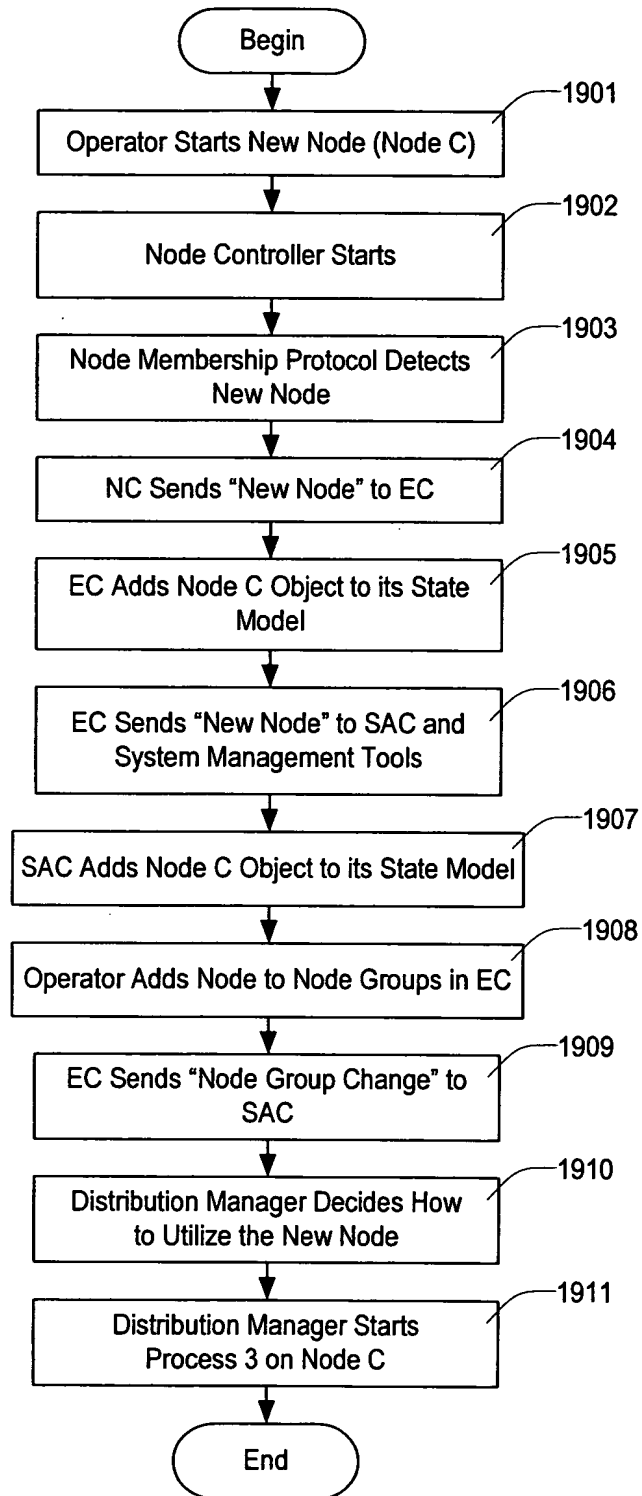


Fig 19

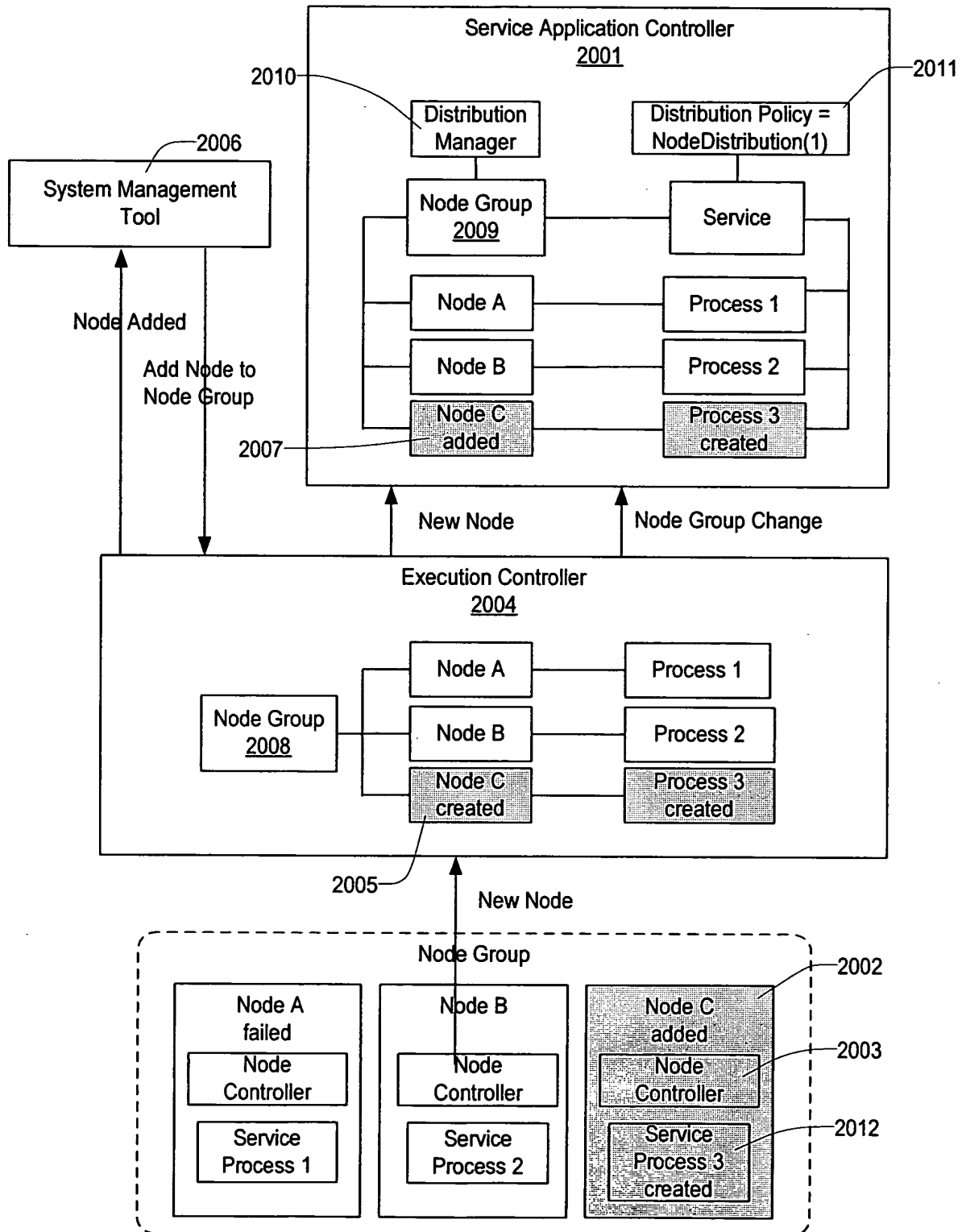


Fig 20

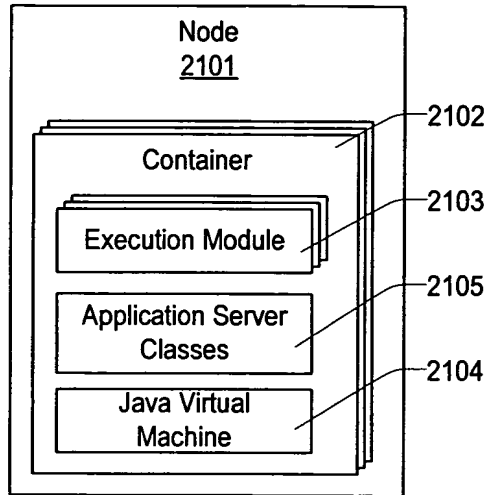


Fig 21

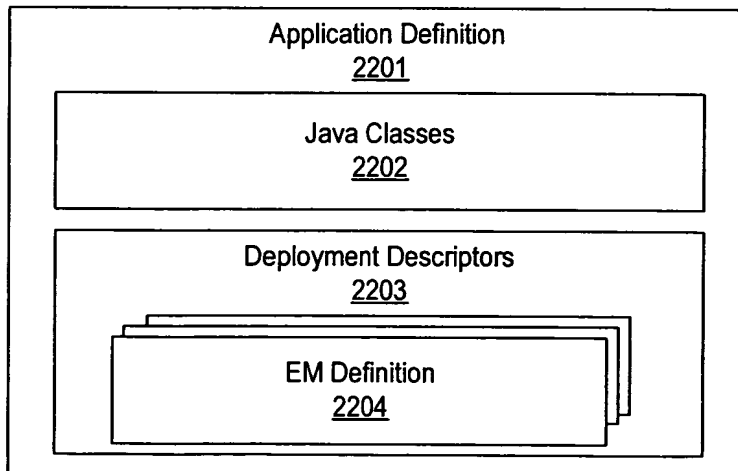


Fig 22

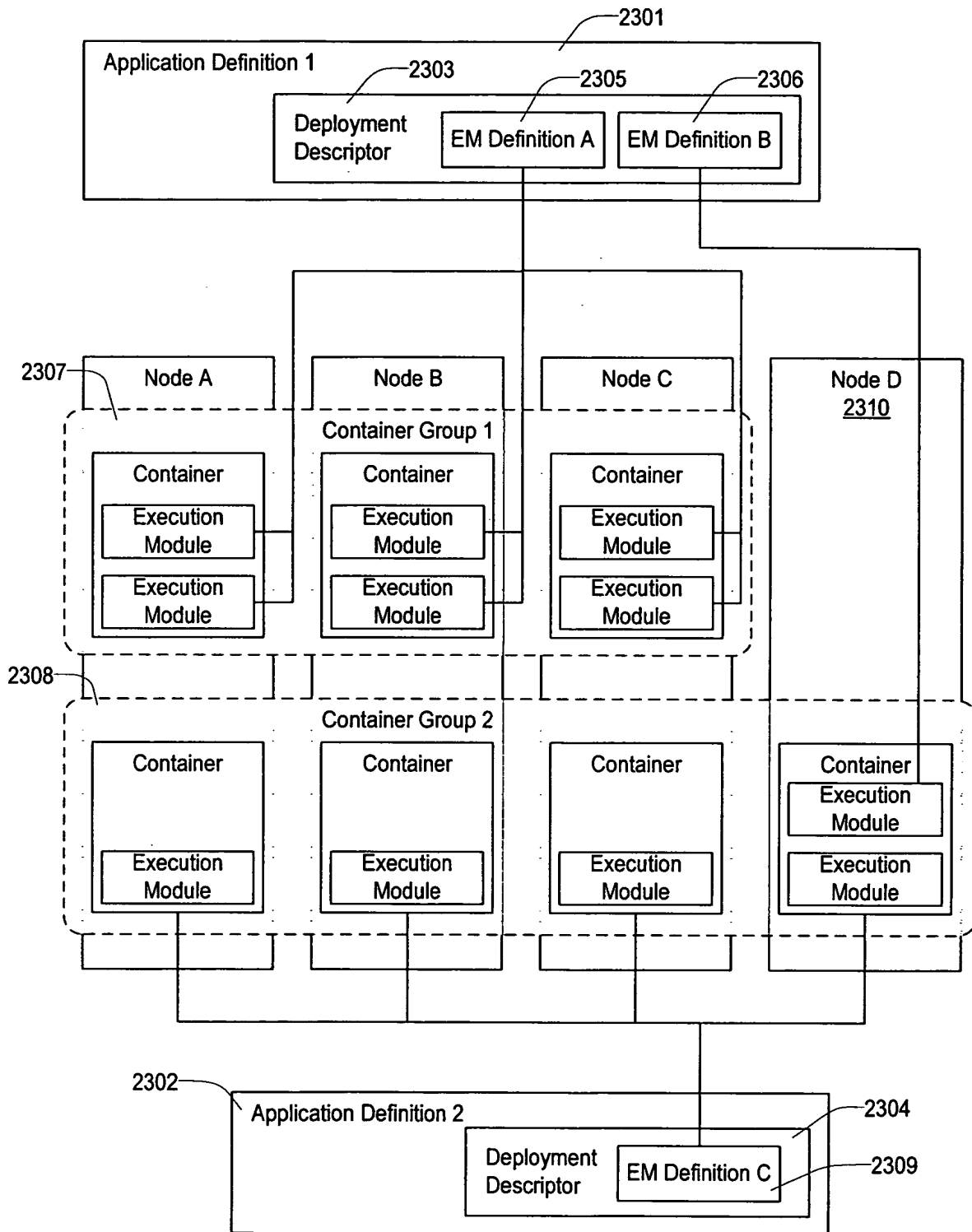


Fig 23

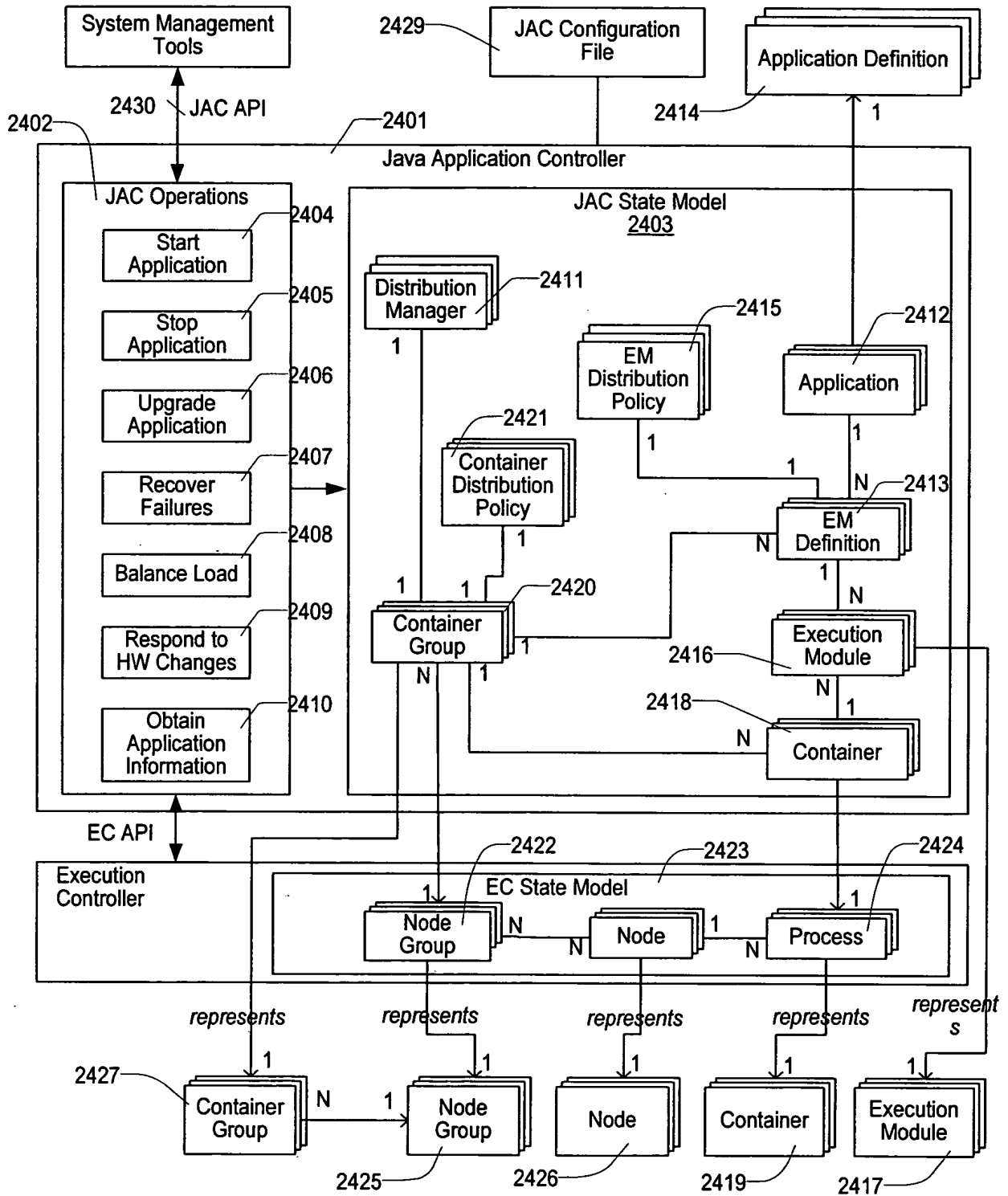


Fig 24

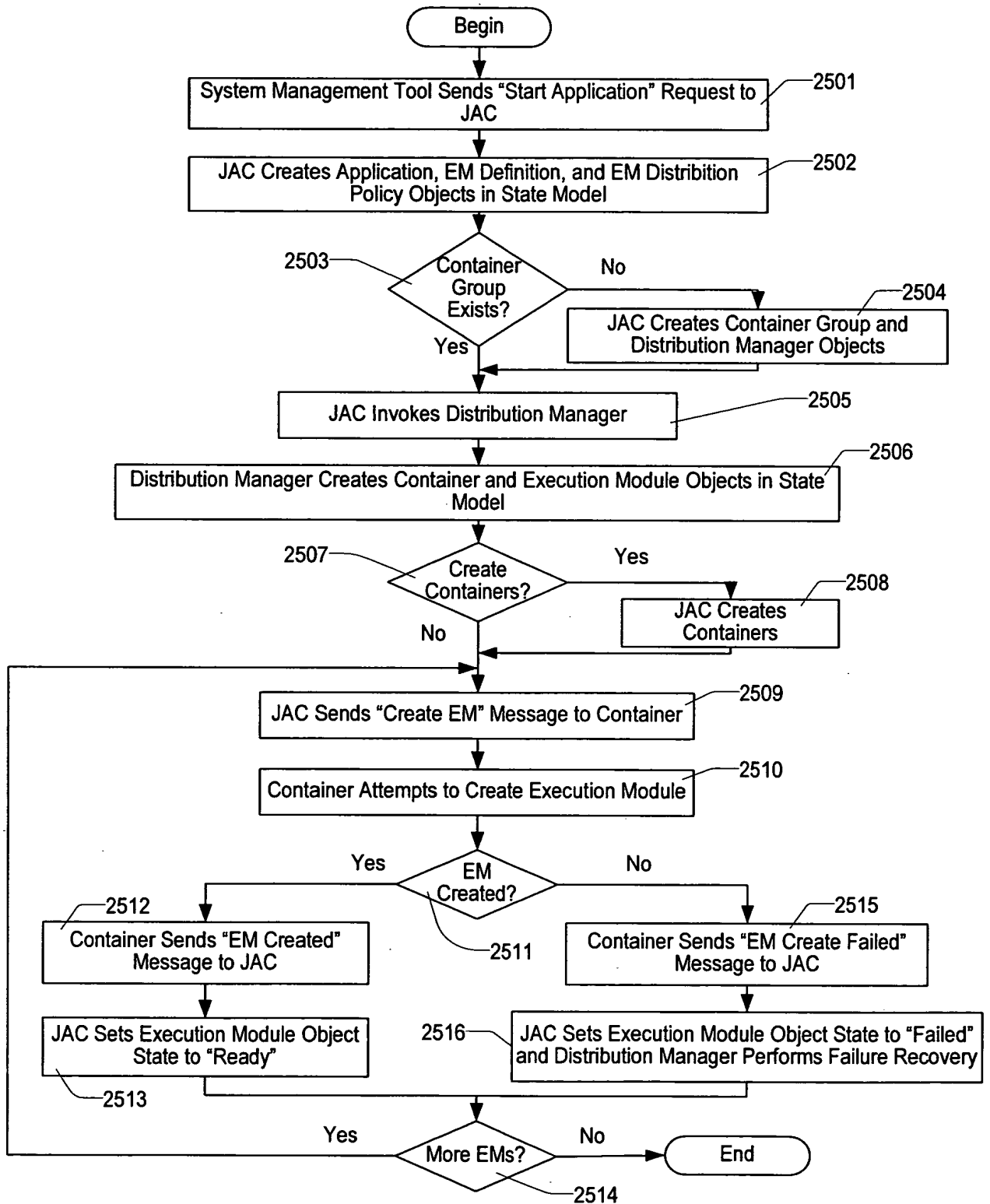


Fig 25

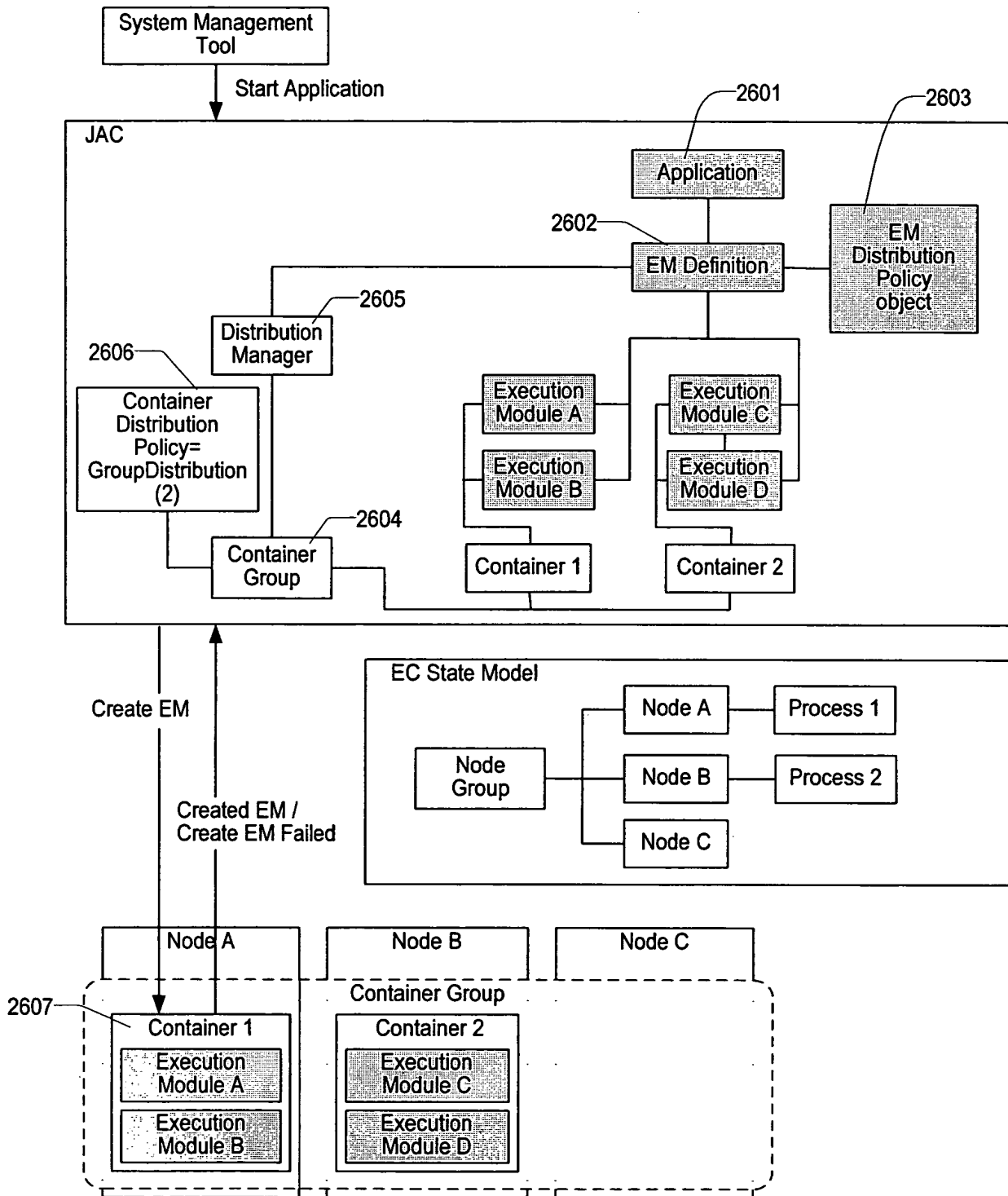


Fig 26

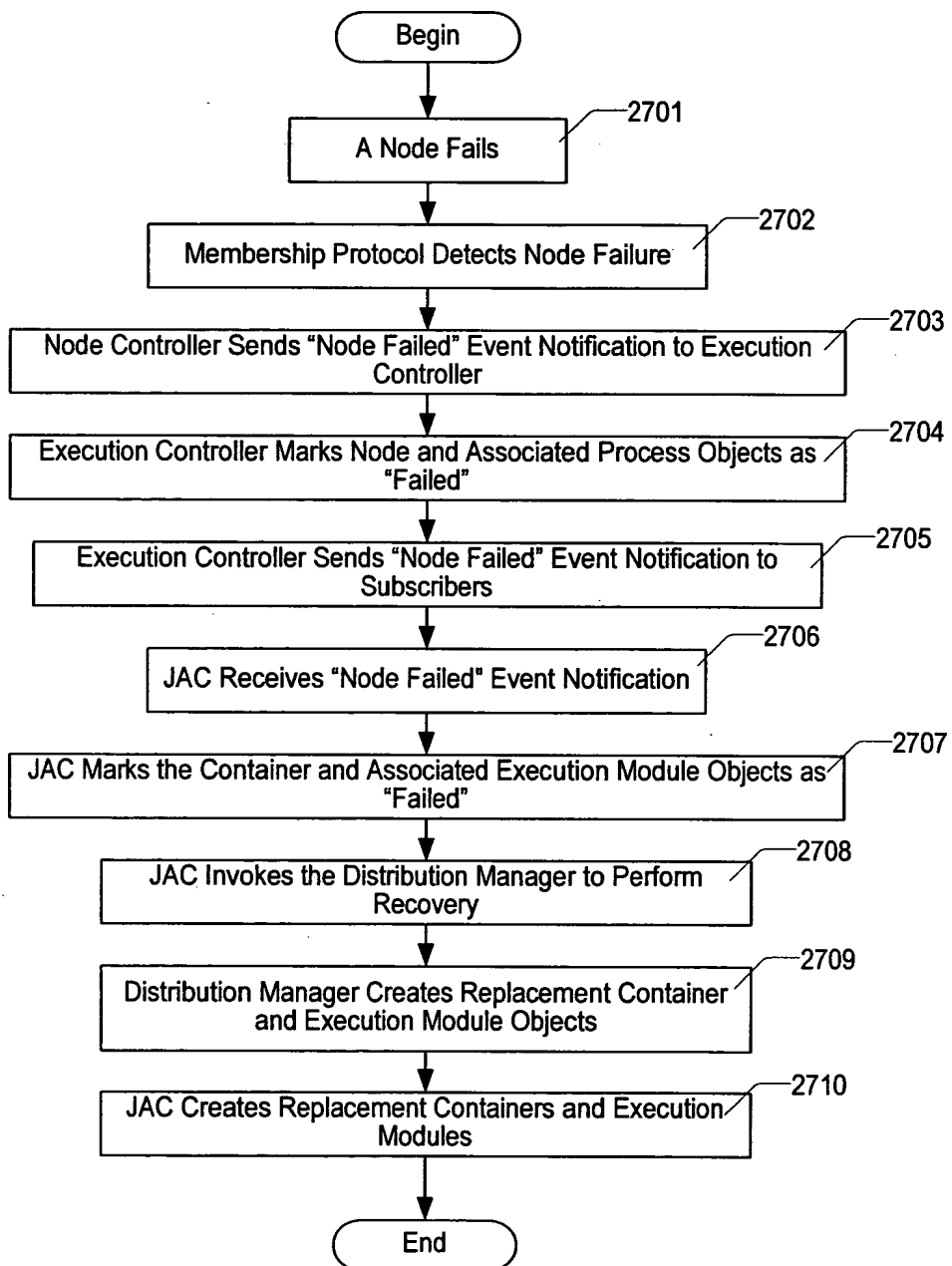


Fig 27

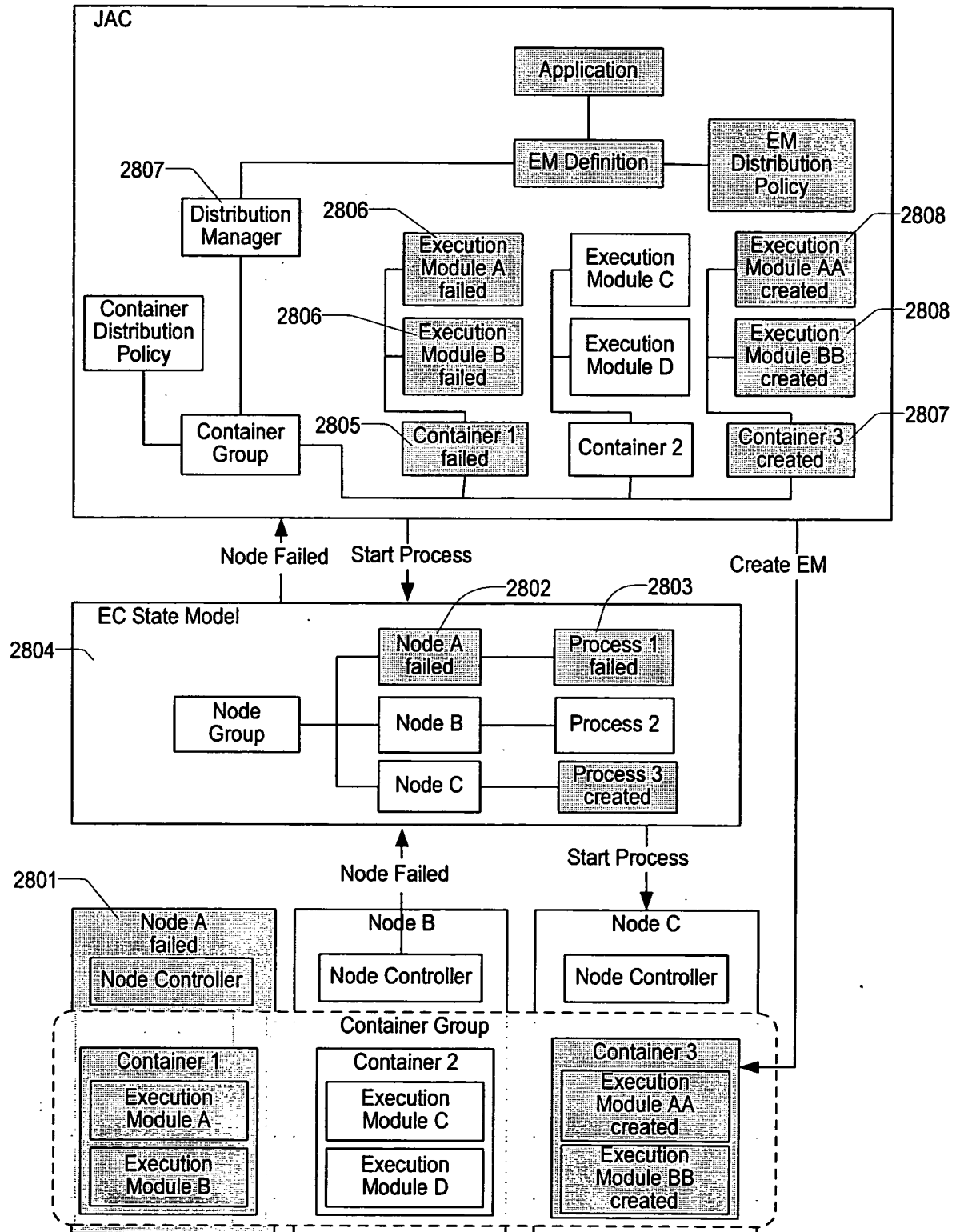


Fig 28

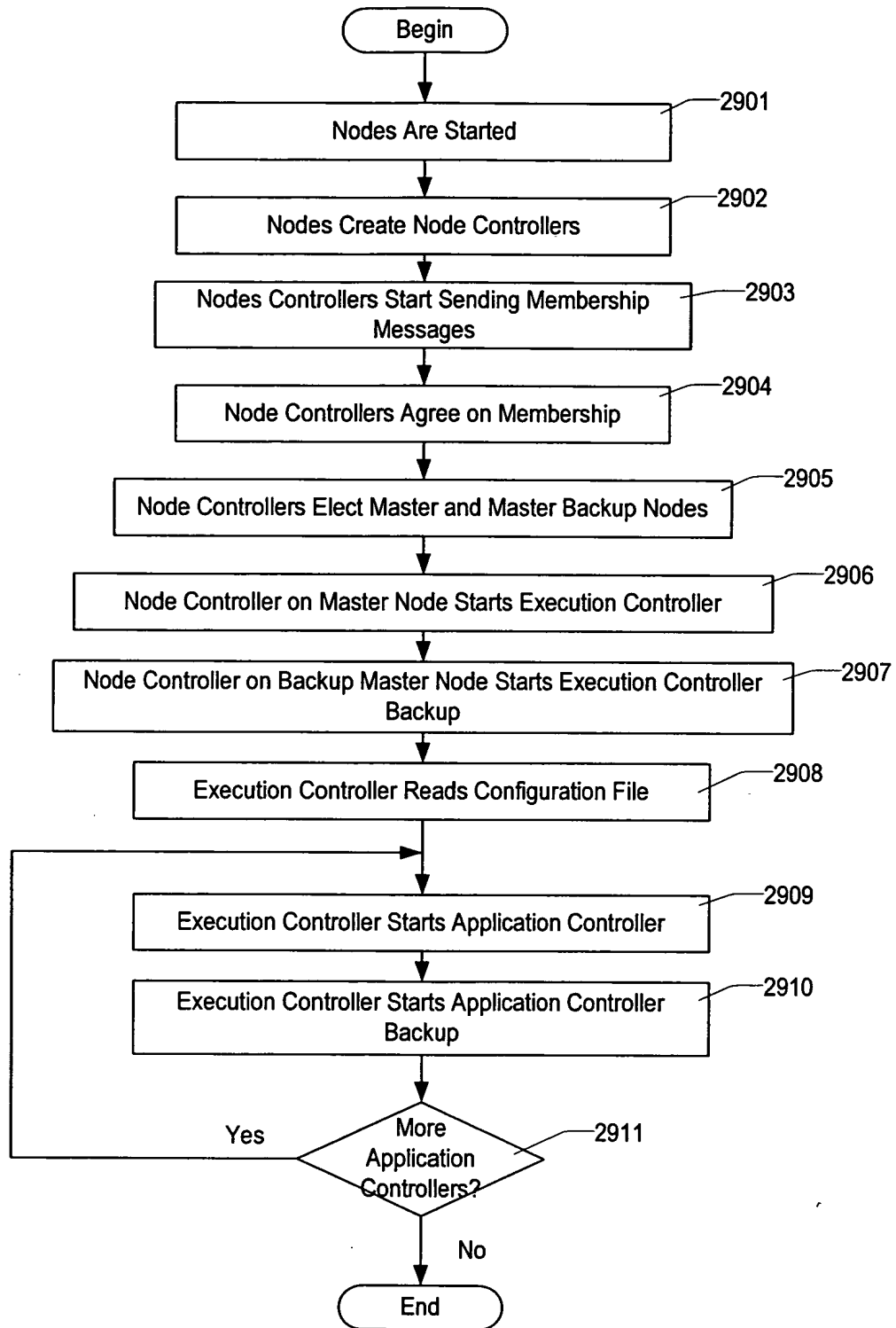


Fig 29

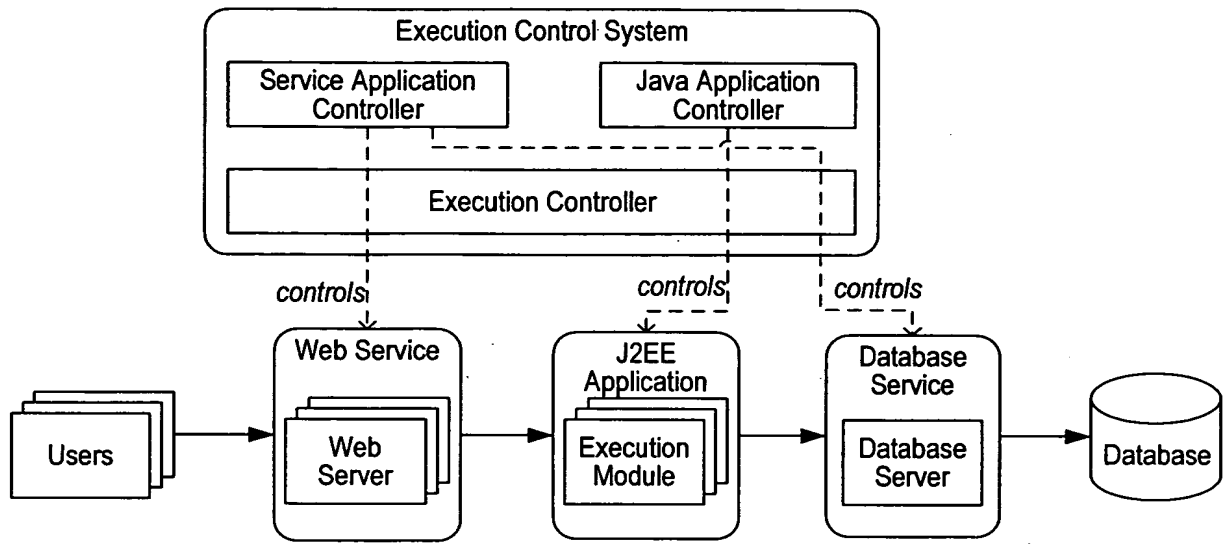


Fig 30

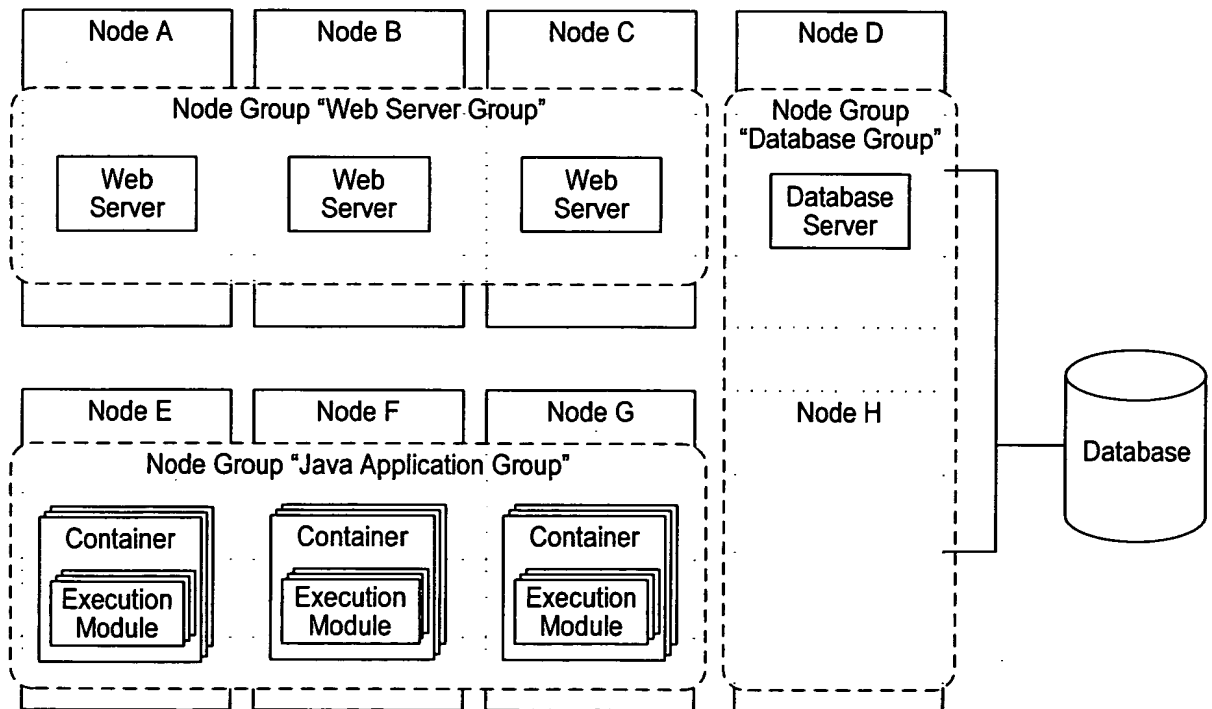


Fig 31

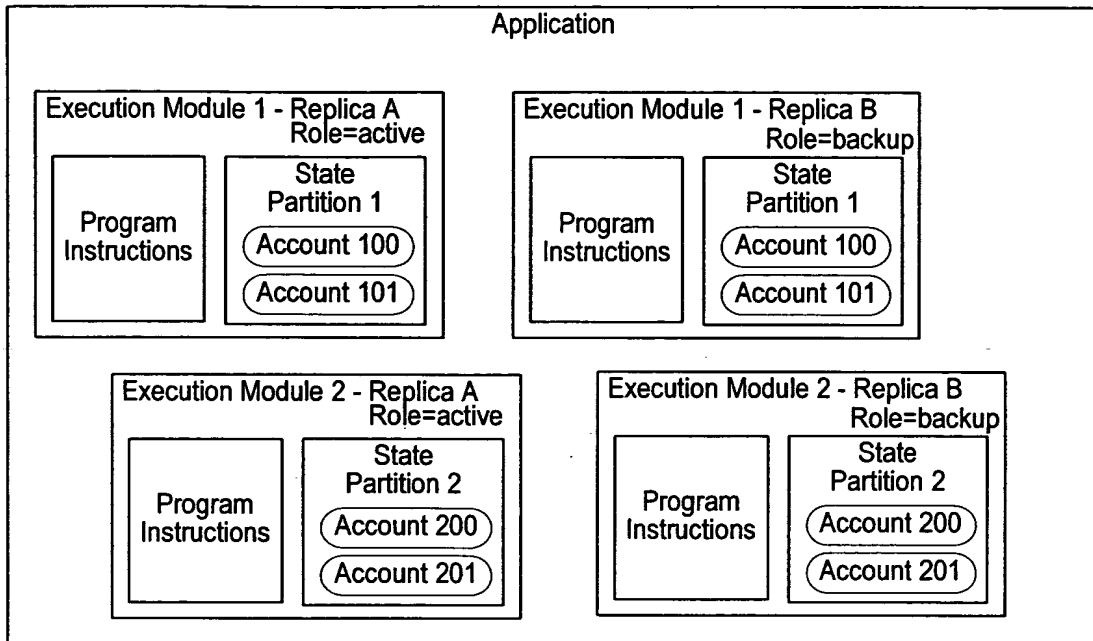


Fig 32

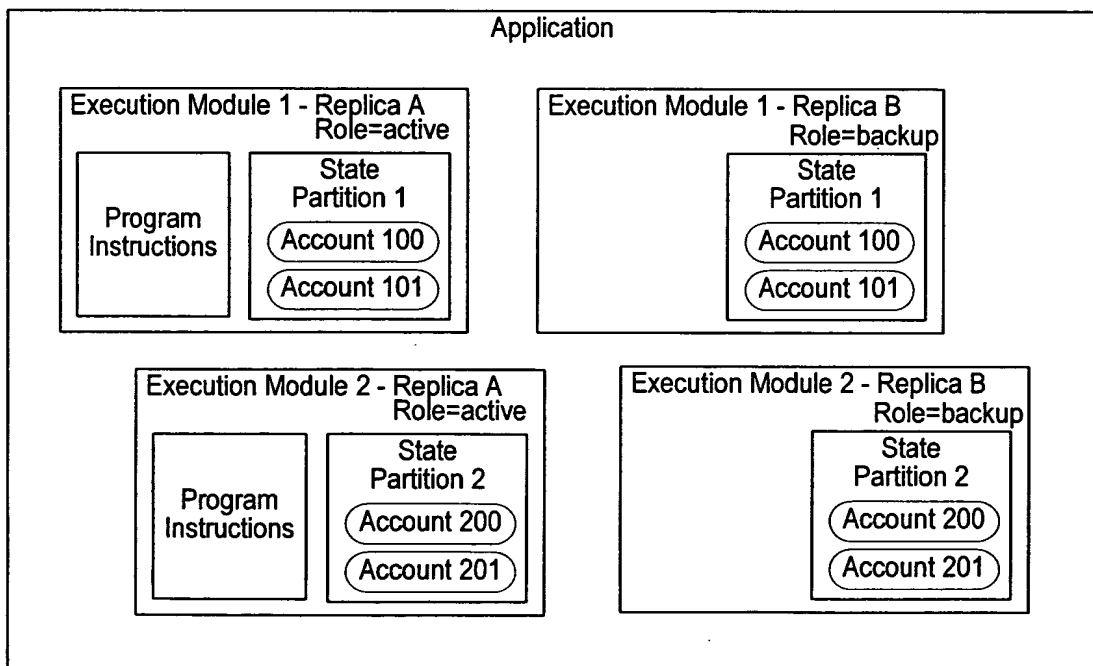


Fig 33

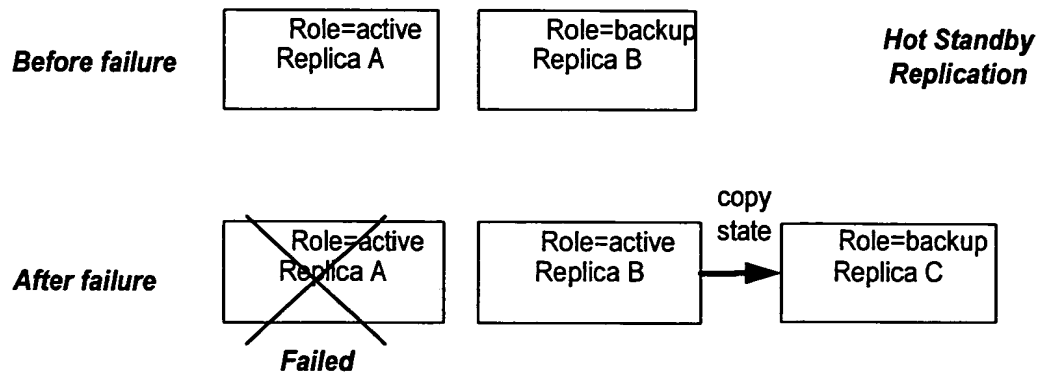


Fig 34-A

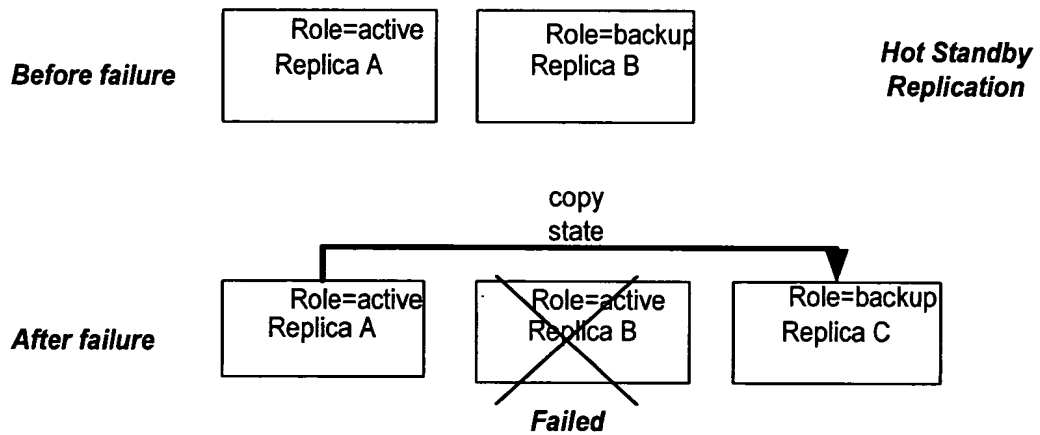


Fig 34-B

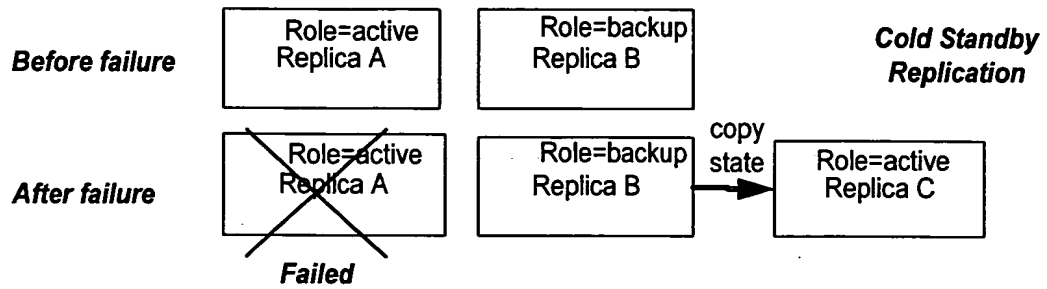


Fig 35-A

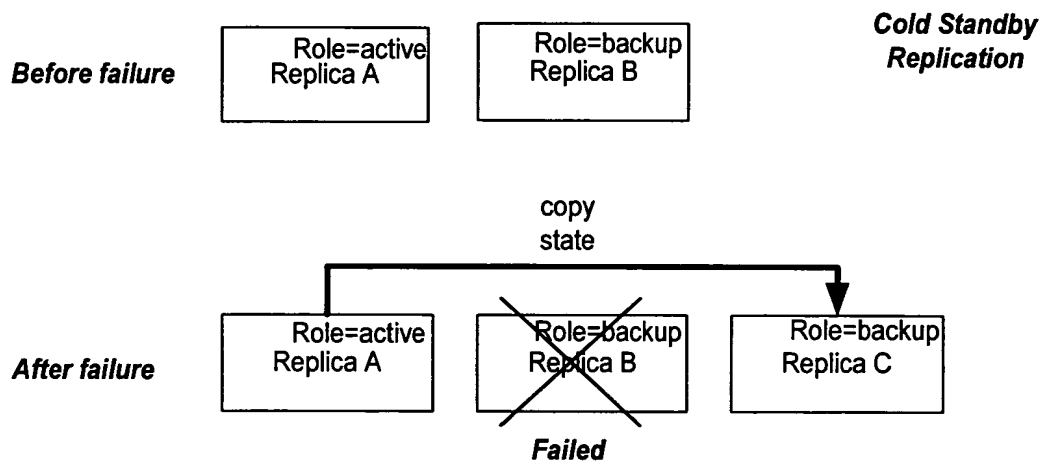


Fig 35-B

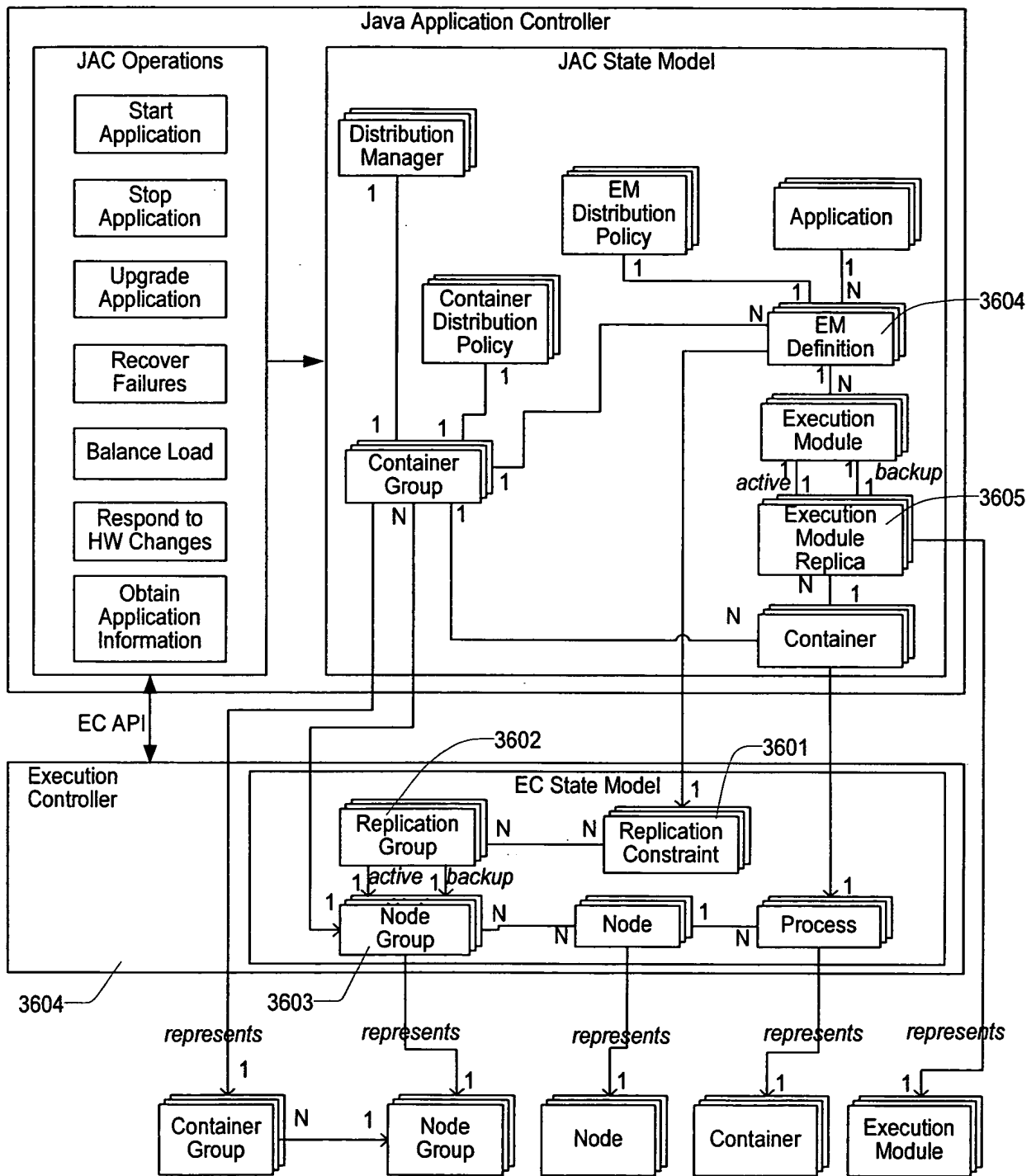
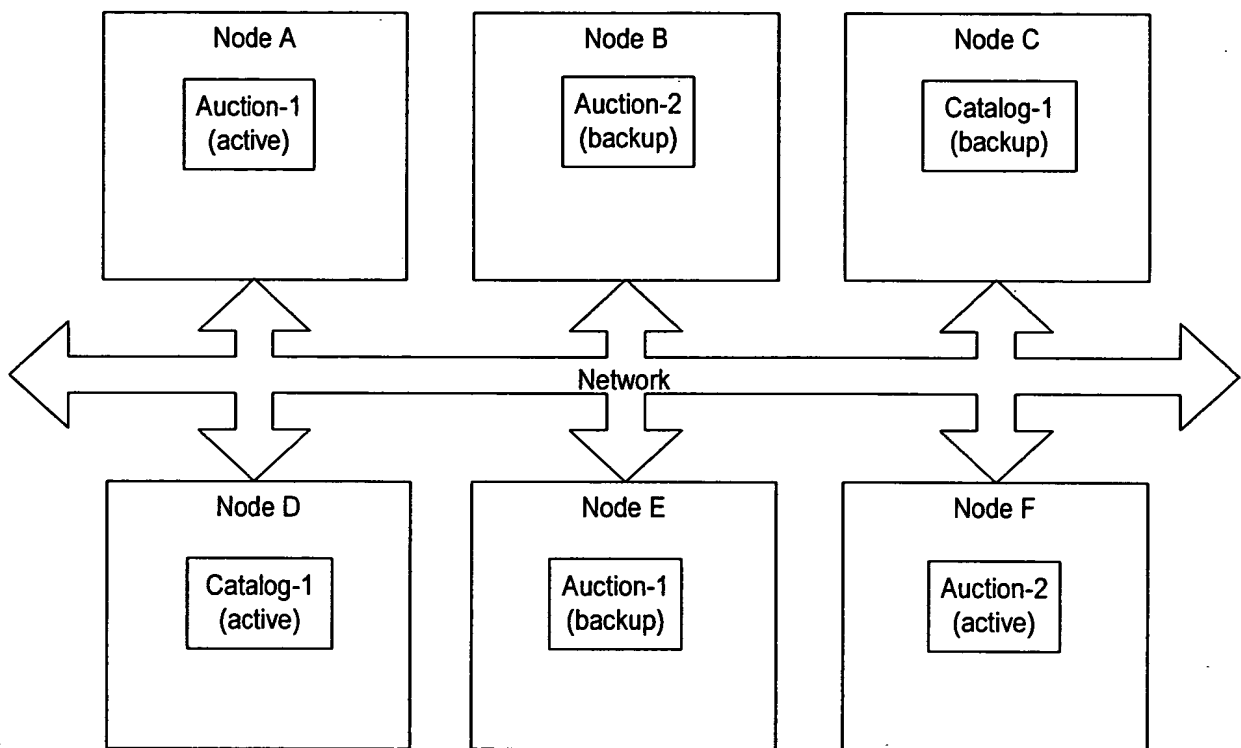


Fig 36



NG1 = (Node A, Node B, Node C)
NG2 = (Node D, Node E, Node F)
RG1 = (NG1, NG2)
RC = (HotStandby : RG1)
Associate RC with Auction EM Definition
Associate RC with Catalog EM Definition

Fig 37

Distribution Manager "distribute" method

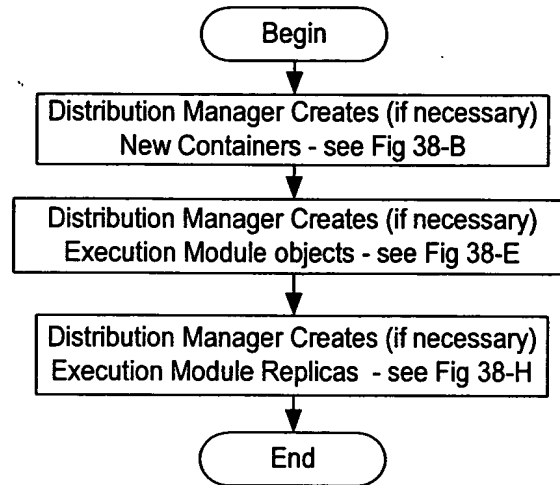


Fig 38-A

Distribution Manager "distributeContainers" method

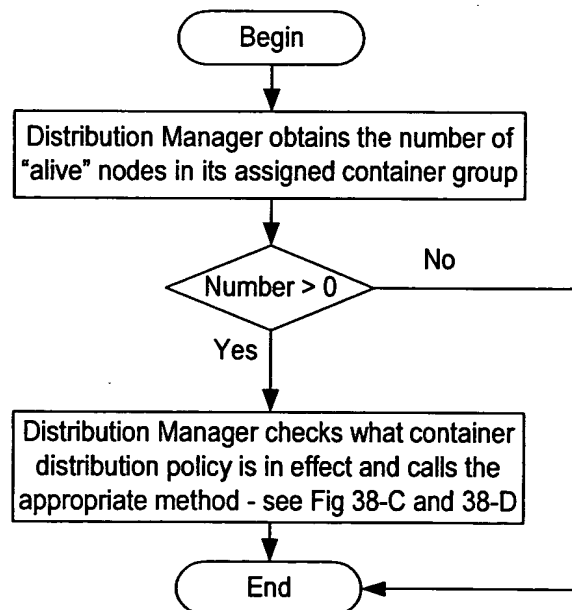


Fig 38-B

Distribution Manager "distributeContainersPerNode" method

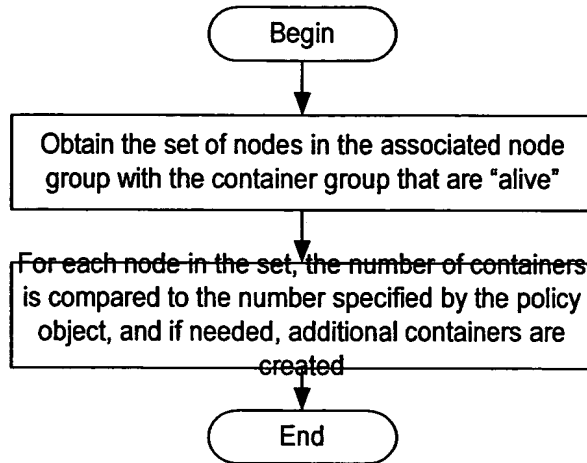


Fig 38-C

Distribution Manager "distributeContainersPerGroup" method

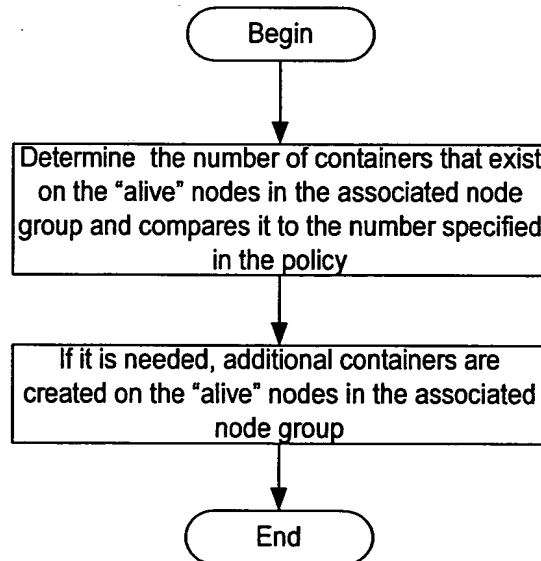


Fig 38-D

Distribution Manager "createExecutionModules" method

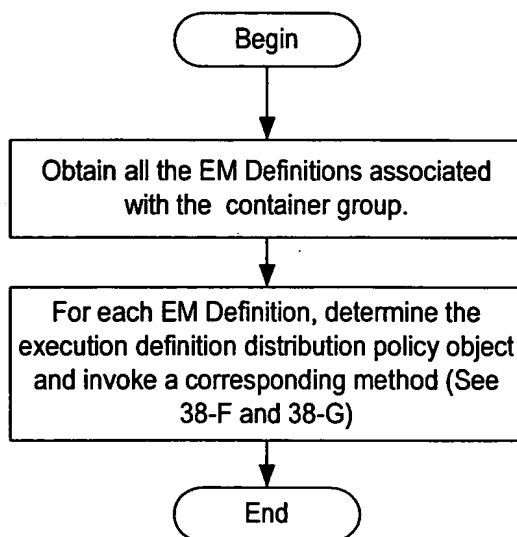


Fig 38-E

Distribution Manager "distributeEMsPerContainer"

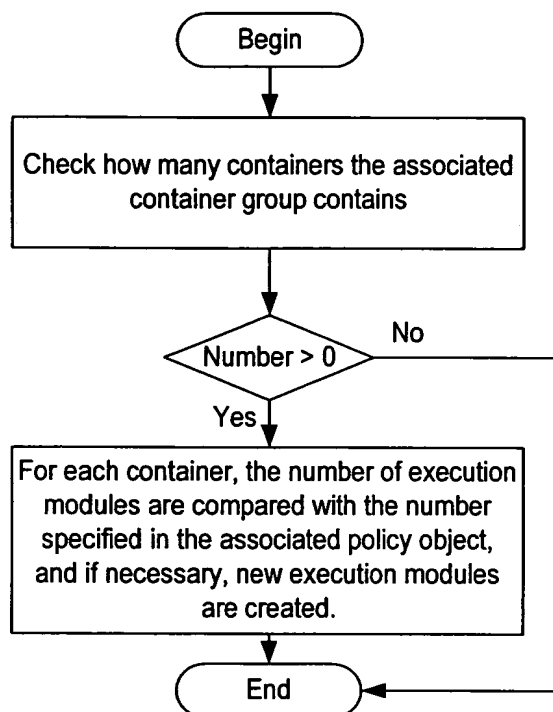


Fig 38-F

Distribution Manager "distributeEMsPerGroup" method

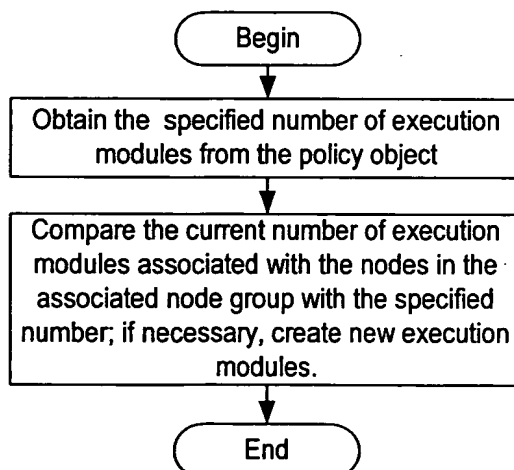


Fig 38-G

Distribution Manager "distributeEMReplicas" method

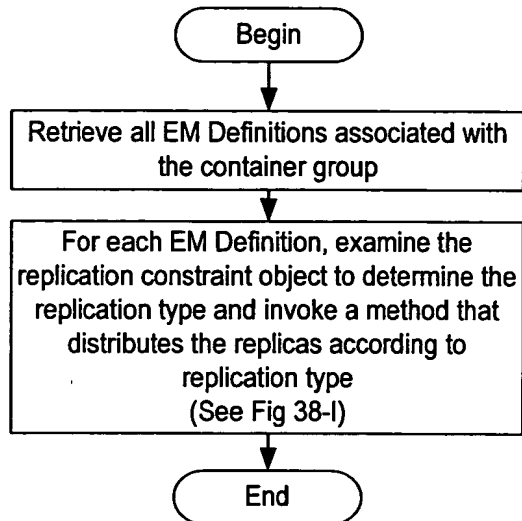


Fig 38-H

Distribution Manager "hotStandbyReplicationDistributeEMReplicas" method

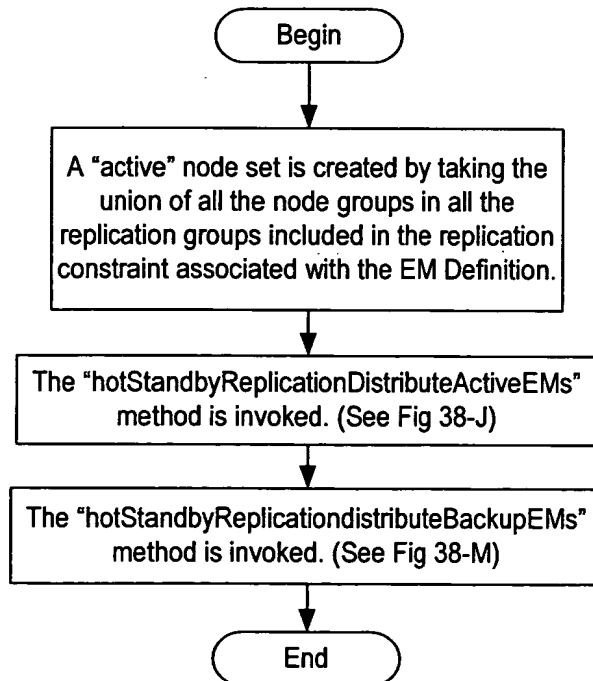


Fig 38-I

Distribution Manager "hotStandbyReplicationDistributeActiveReplicas" method

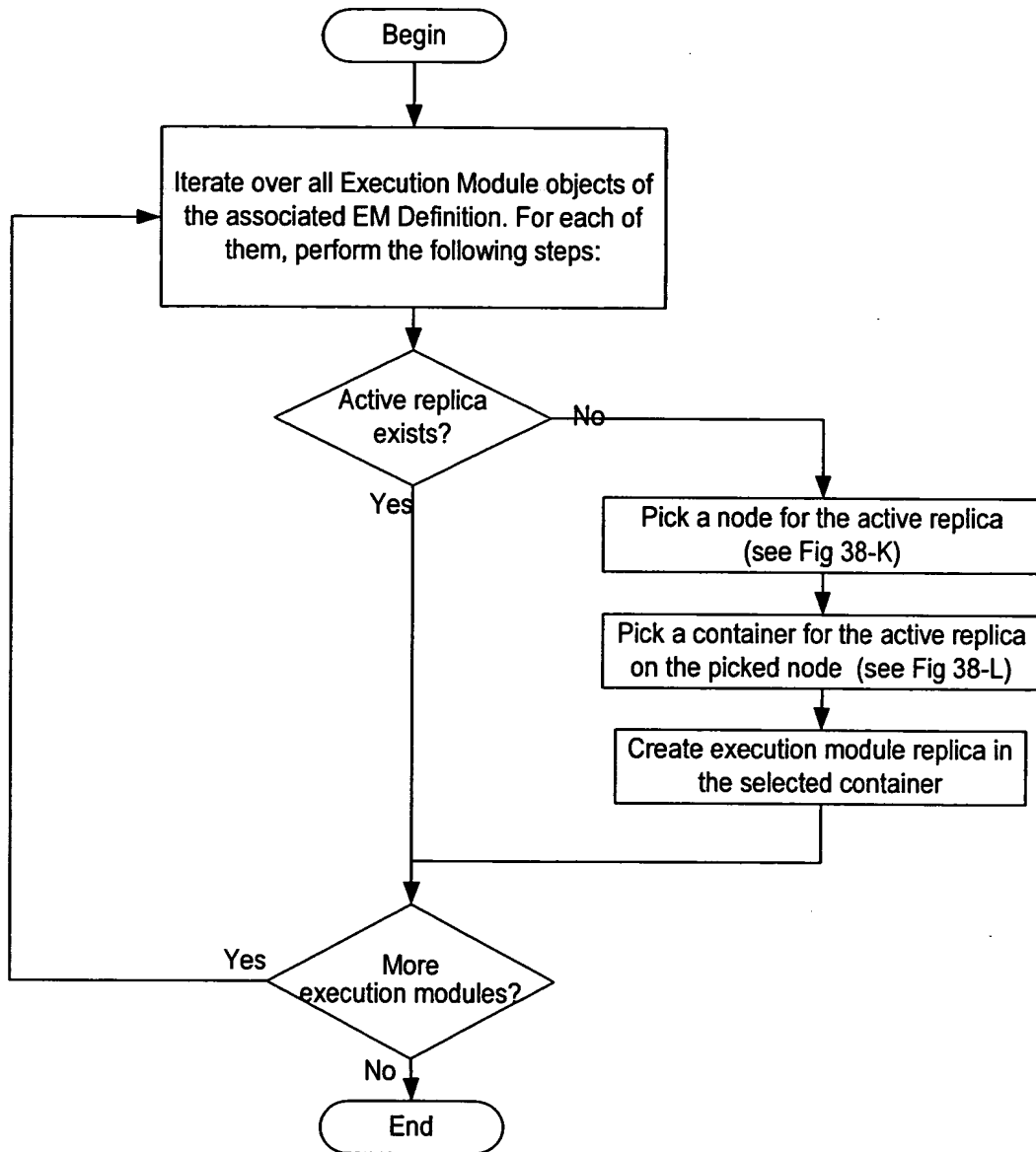


Fig 38-J

Distribution Manager "hotStandbyReplicationPickNodeForActive" method

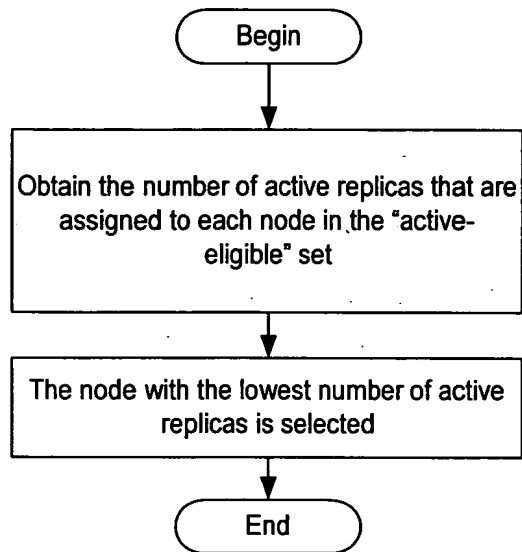


Fig 38-K

Distribution Manager "hotStandbyReplicationPickContainerForActive" method

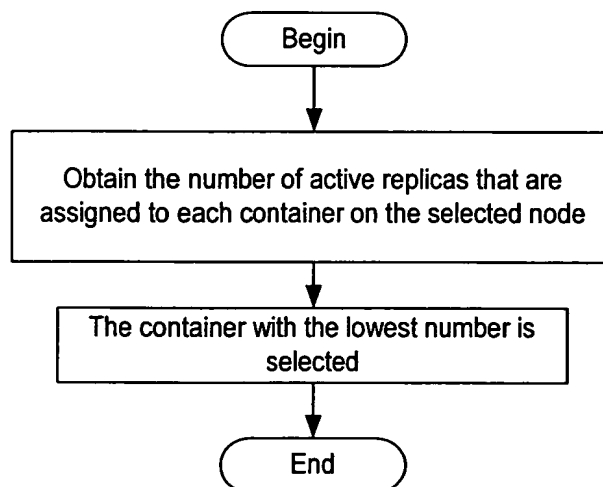


Fig 38-L

Distribution Manager "hotStandbyReplicationDistributeBackupReplicas" method

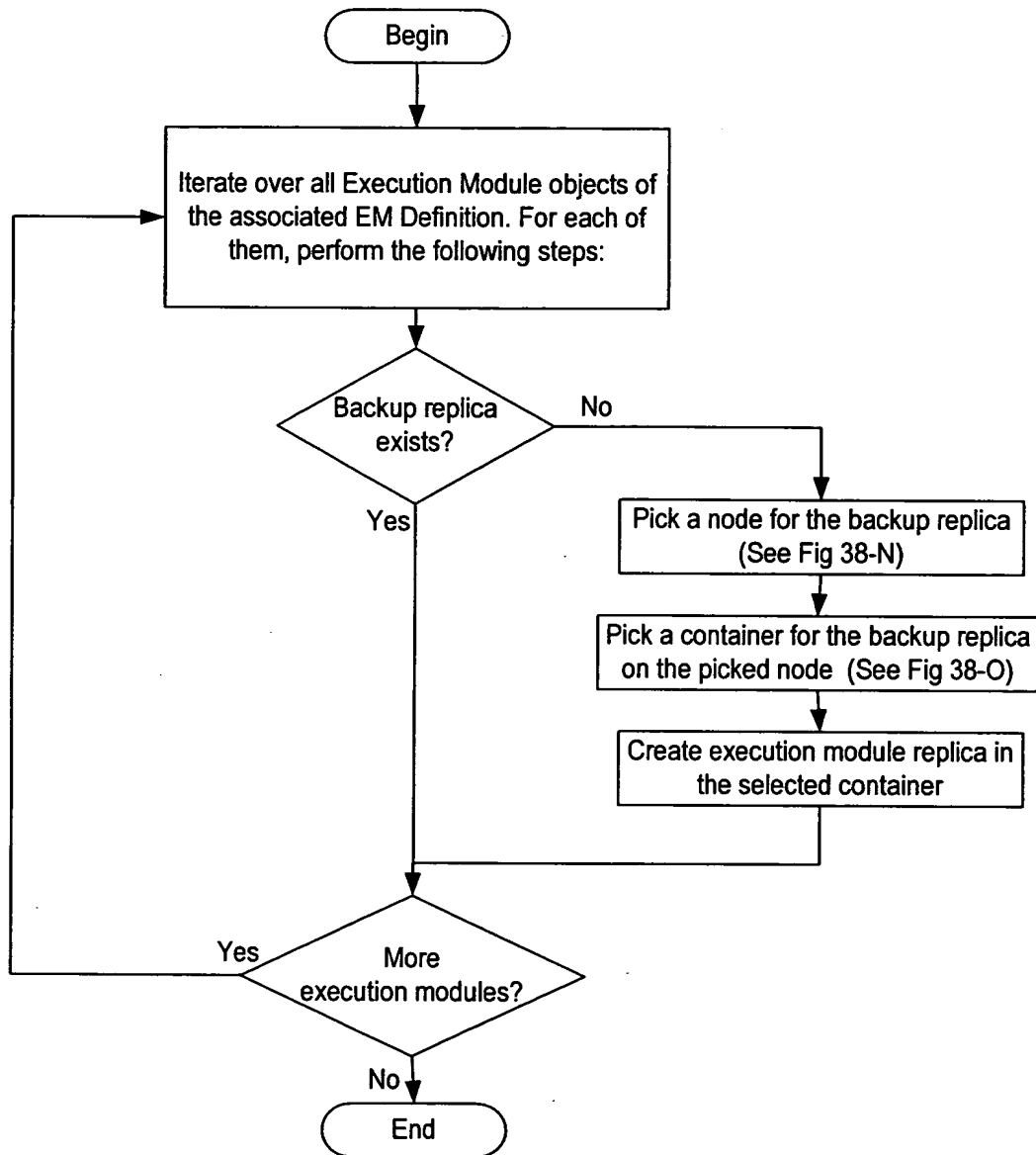


Fig 38-M

Distribution Manager "hotStandbyReplicationPickNodeForBackup" method

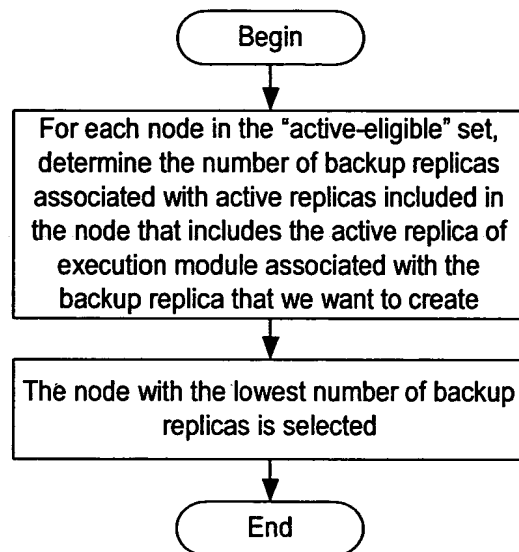


Fig 38-N

Distribution Manager "hotStandbyReplicationPickContainerForBackup" method

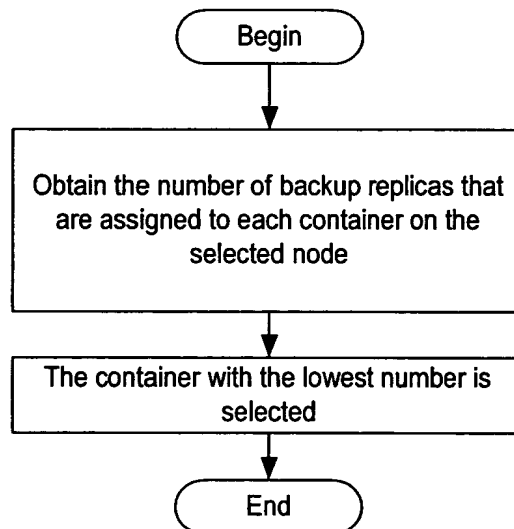


Fig 38-O

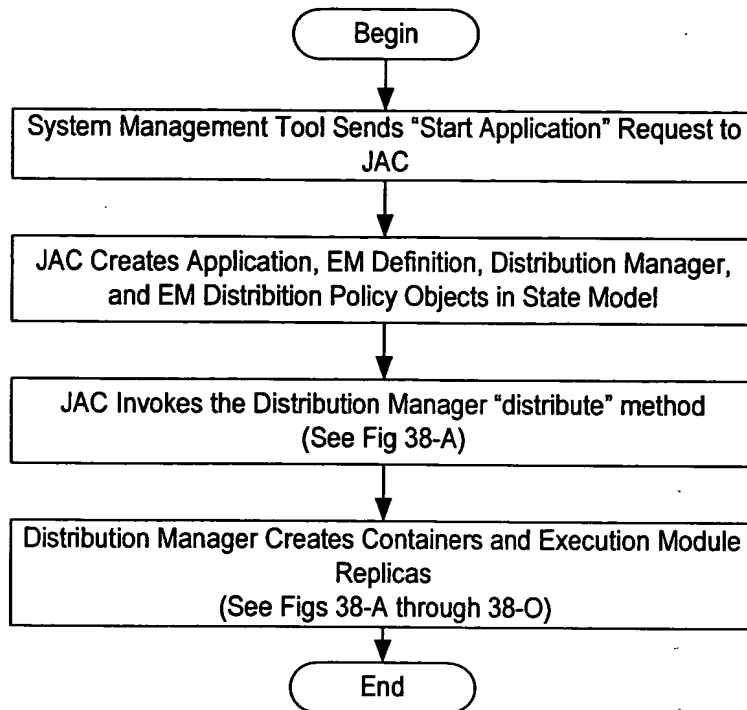


Fig 39-A

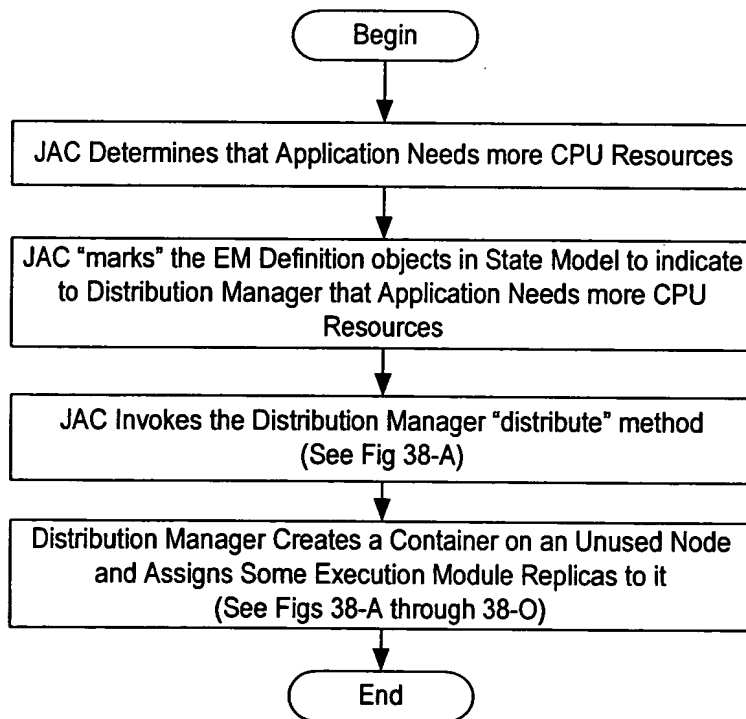


Fig 39-B

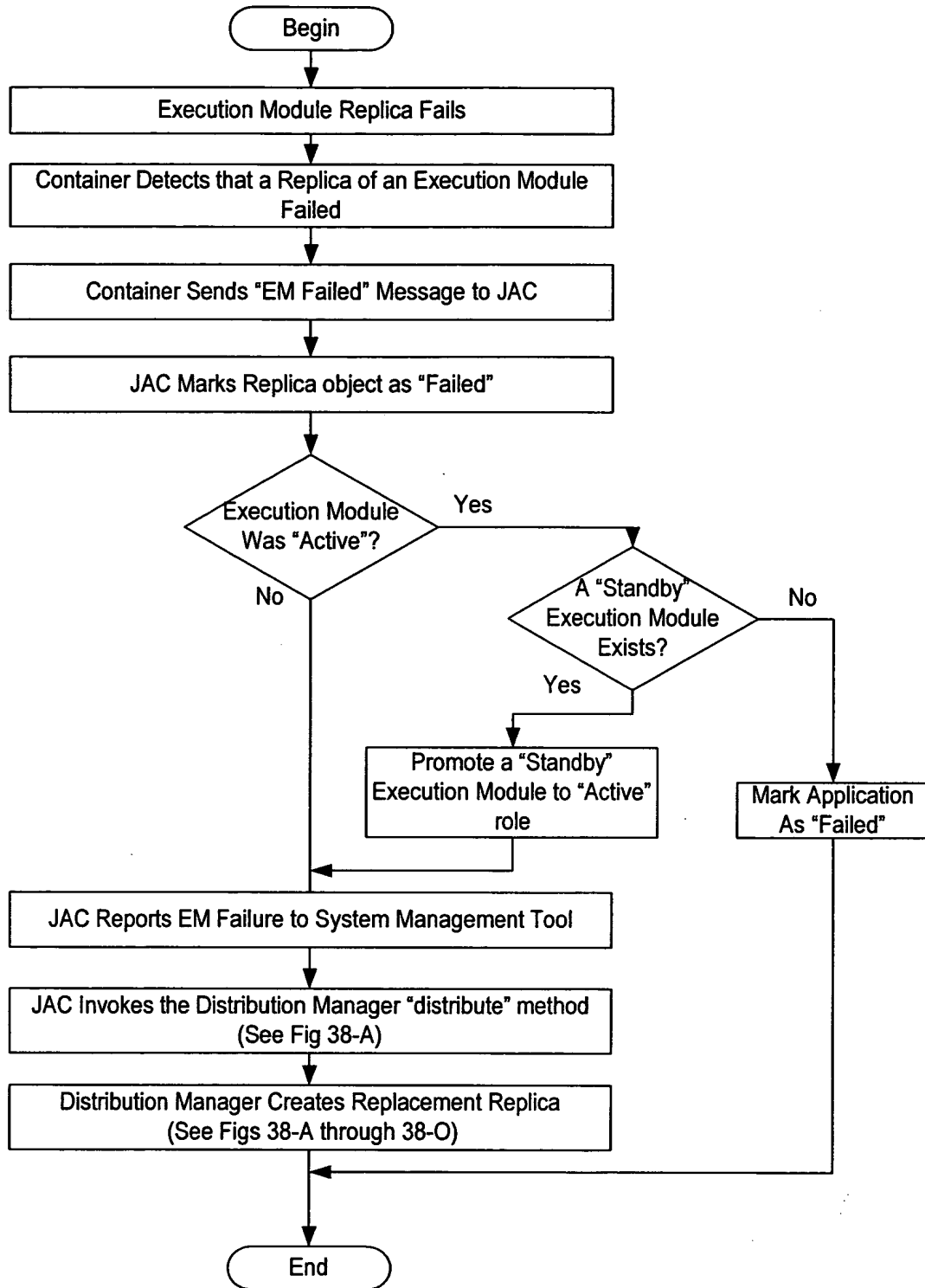


Fig 40-A

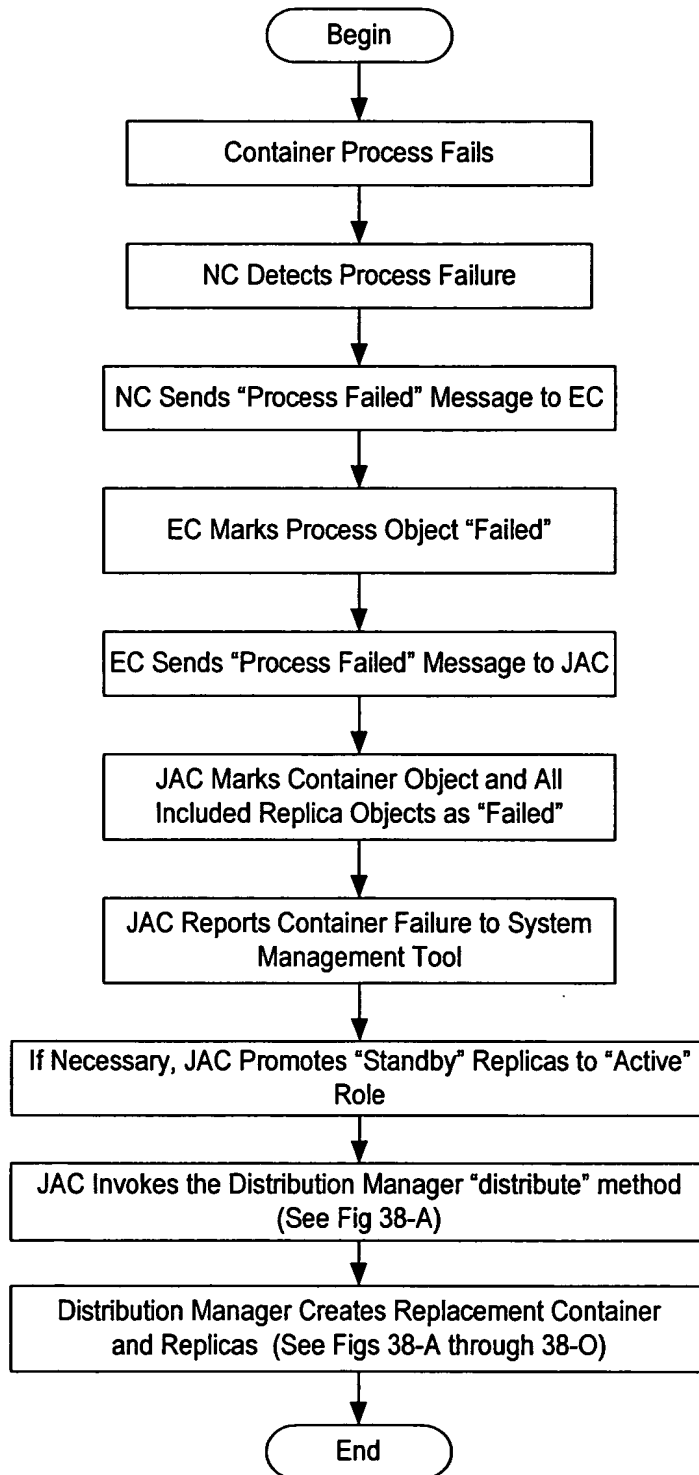


Fig 40-B

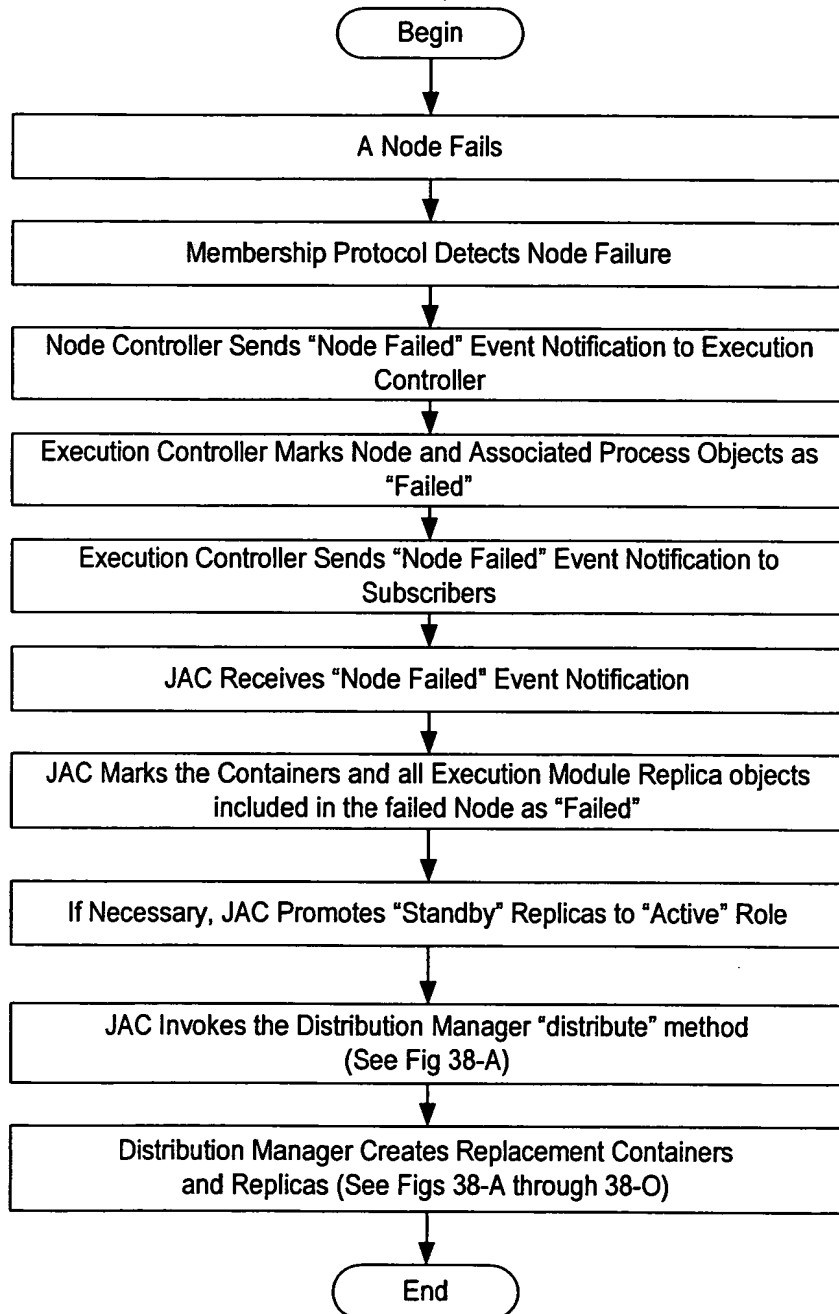
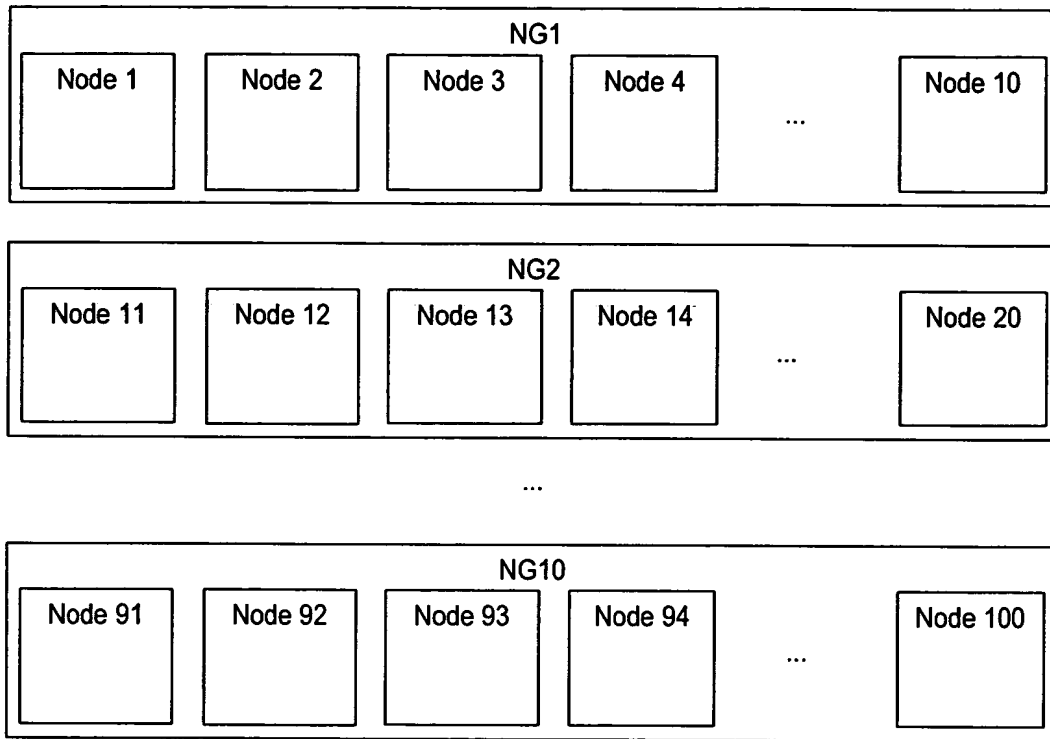


Fig 40-C



NG1 = (Node 1, Node 2, Node 3, Node 4 ... Node 10)

NG2 = (Node 11, Node 12, Node 13, Node 14 .. Node 20)

...

NG10 = (Node 91, Node 92, Node 93, Node 94 .. Node 100)

RG1 = (NG1, NG1)

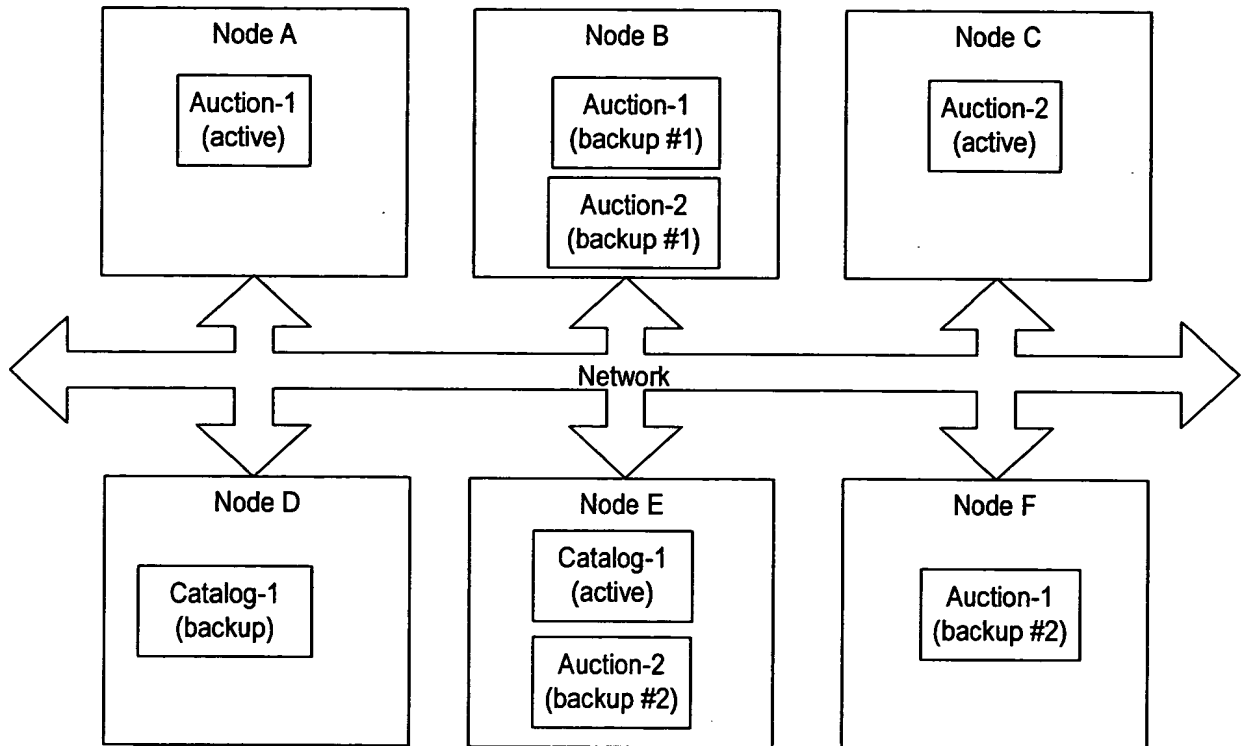
RG2 = (NG2, NG2)

...

RG10 = (NG10, NG10)

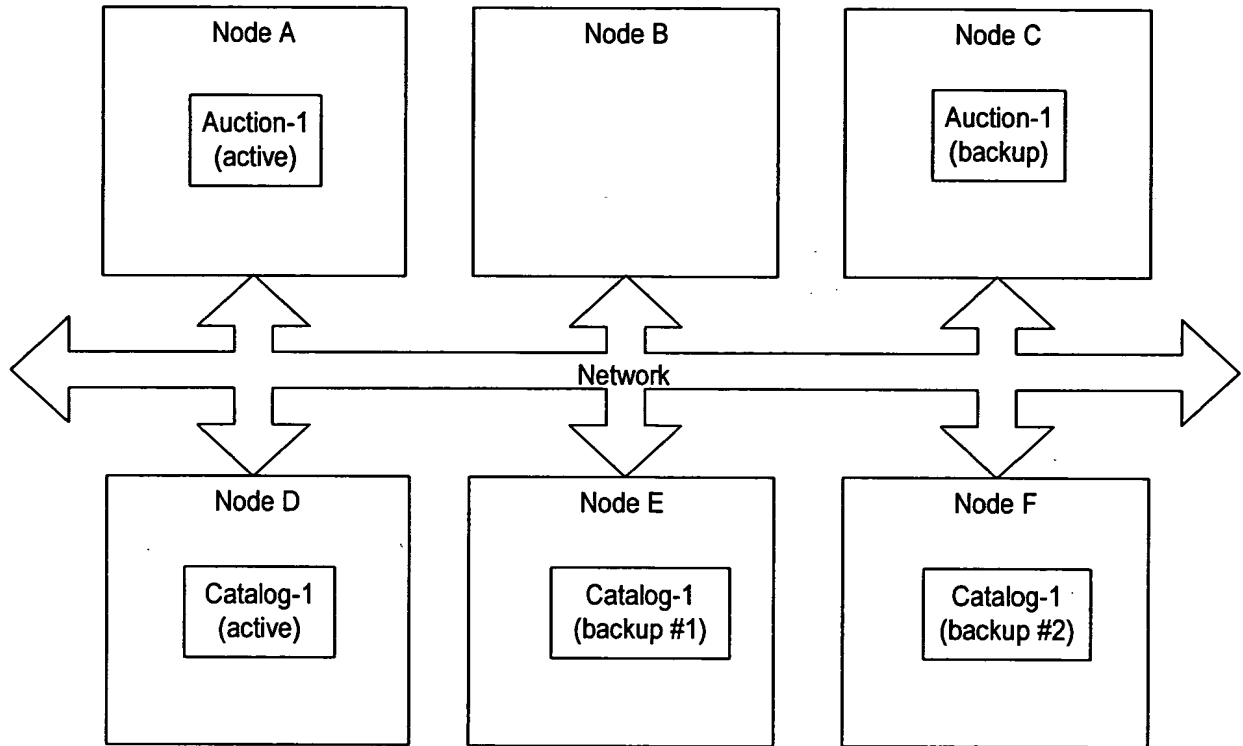
RC = (HotStandby : RG1, RG2, RG3, RG4, RG5, RG6, RG7, RG8, RG9, RG10)

Fig 41



NG = (Node A, Node B, Node C, Node D, Node E, Node F)
RG1 = (NG, NG) // Cardinality 2: 1 active + 1 backup
RG2 = (NG, NG, NG) // Cardinality 3: 1 active + 2 backups
RC1 = (HotStandby : RG1)
RC2 = (HotStandby : RG2)
Associate RC1 with Catalog EM Definition
Associate RC2 with Auction EM Definition

Fig 42



ReliableNG = (Node A, Node B)

UnreliableNG = (Node C, Node D, Node E, Node F)

RG1 = (ReliableNG, UnreliableNG) // 1 active + 1 backup

RG2 = (UnreliableNG, UnreliableNG, UnreliableNG) // 1 active + 2 backups

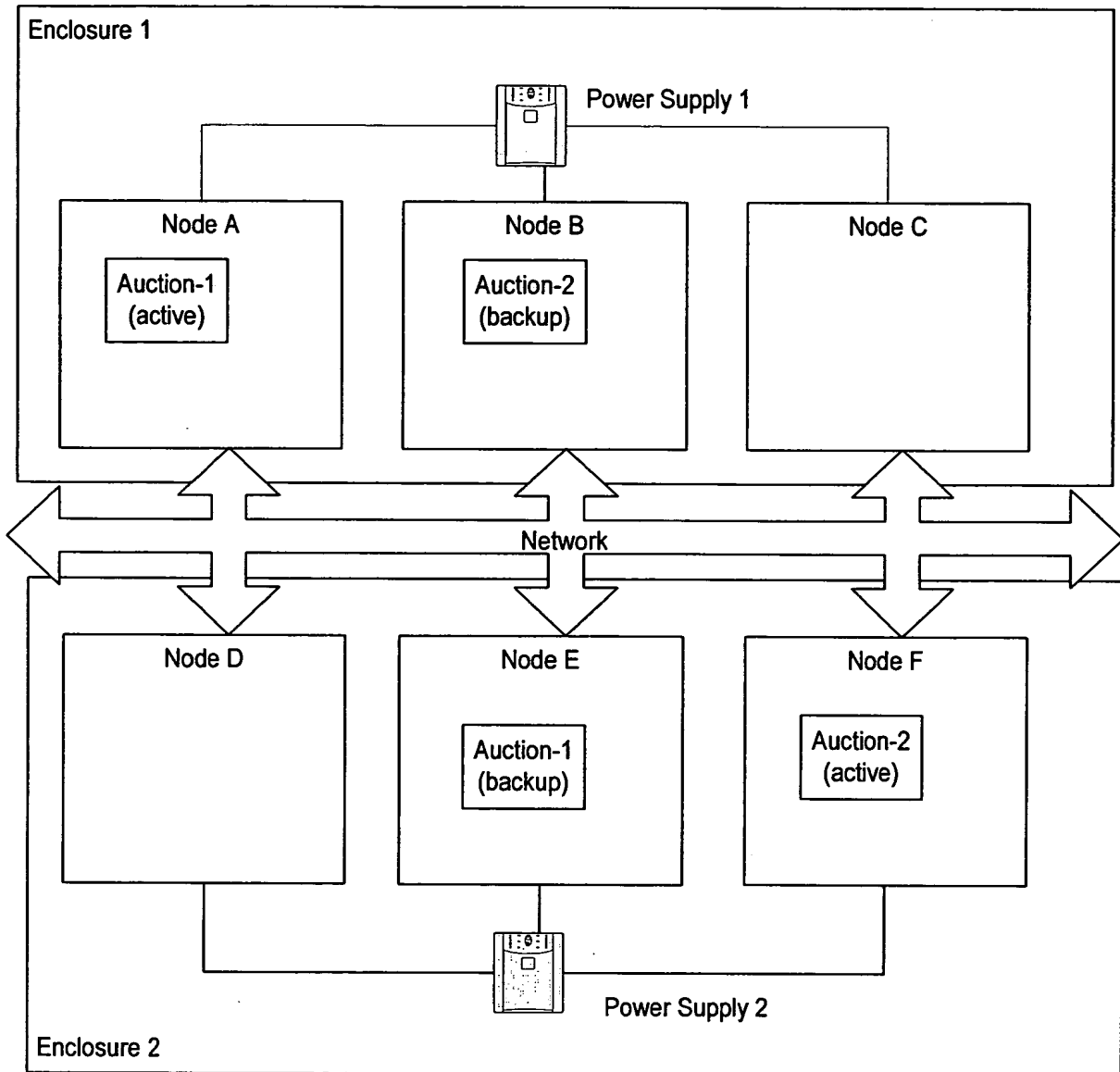
RC1 = (HotStandby : RG1)

RC2 = (HotStandby : RG2)

Associate RC1 with Auction EM Definition

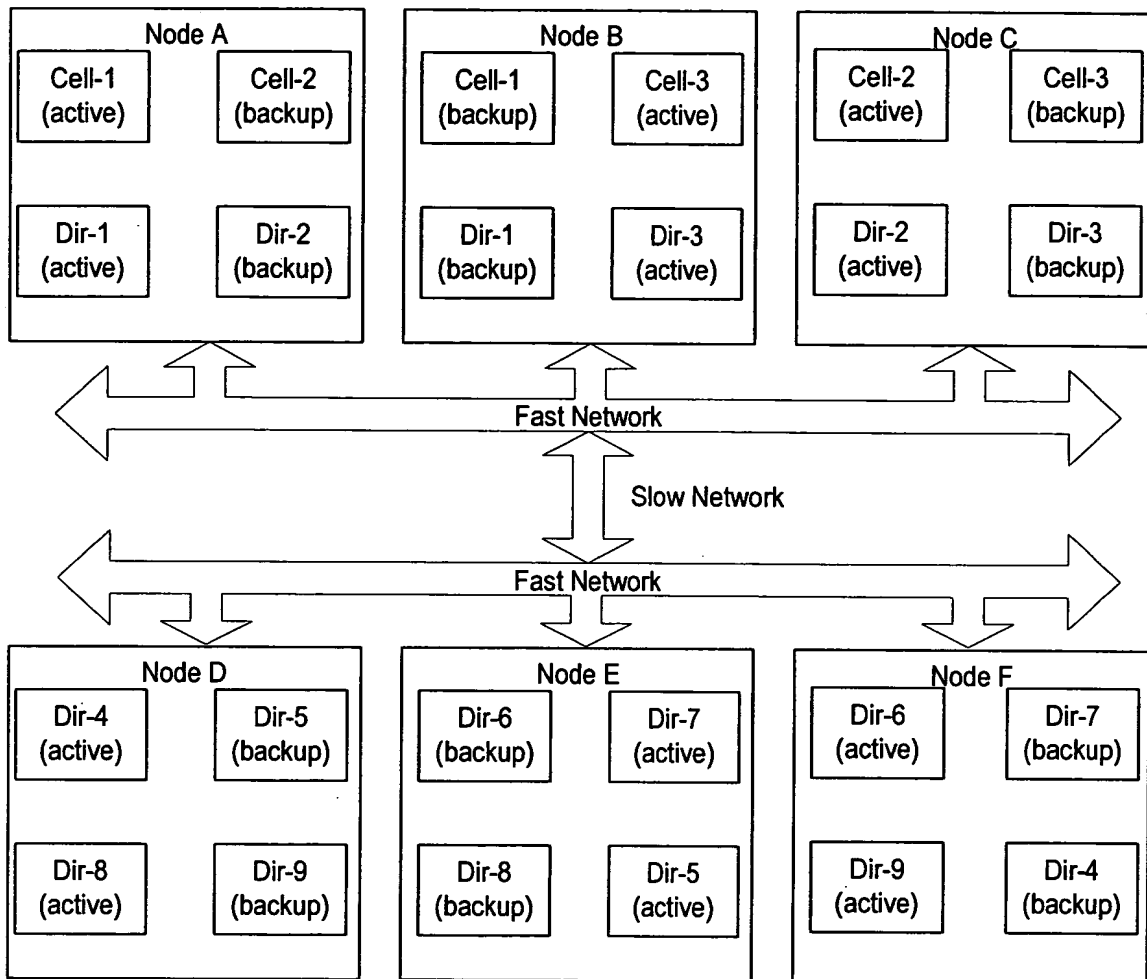
Associate RC2 with Catalog Definition

Fig 43



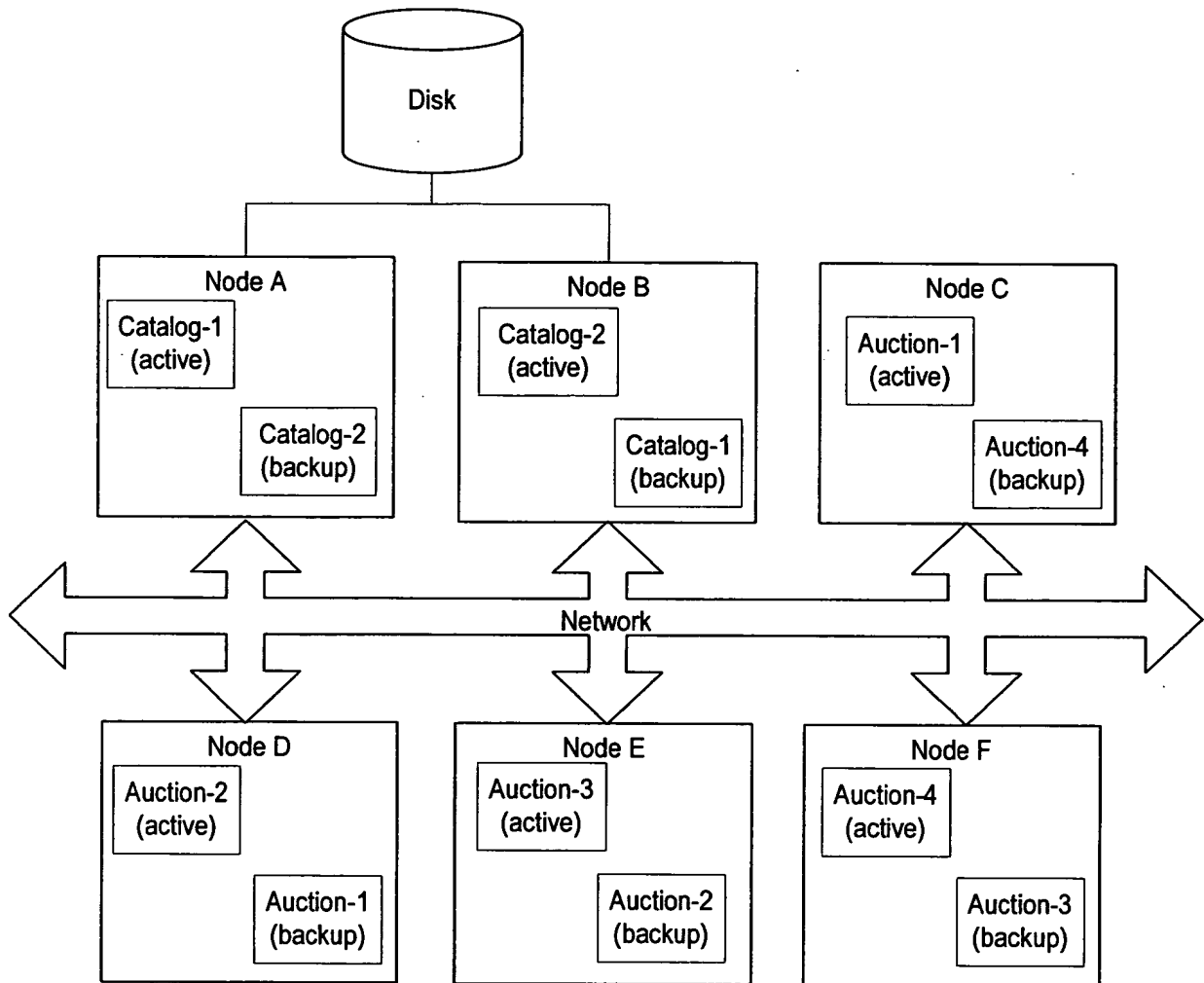
Enclosure1_NG = (Node A, Node B, Node C)
Enclosure2_NG = (Node D, Node E, Node F)
RG = (Enclosure1_NG, Enclosure2_NG)
RC = (HotStandby : RG1)
Associate RC with Auction EM Definition

Fig 44



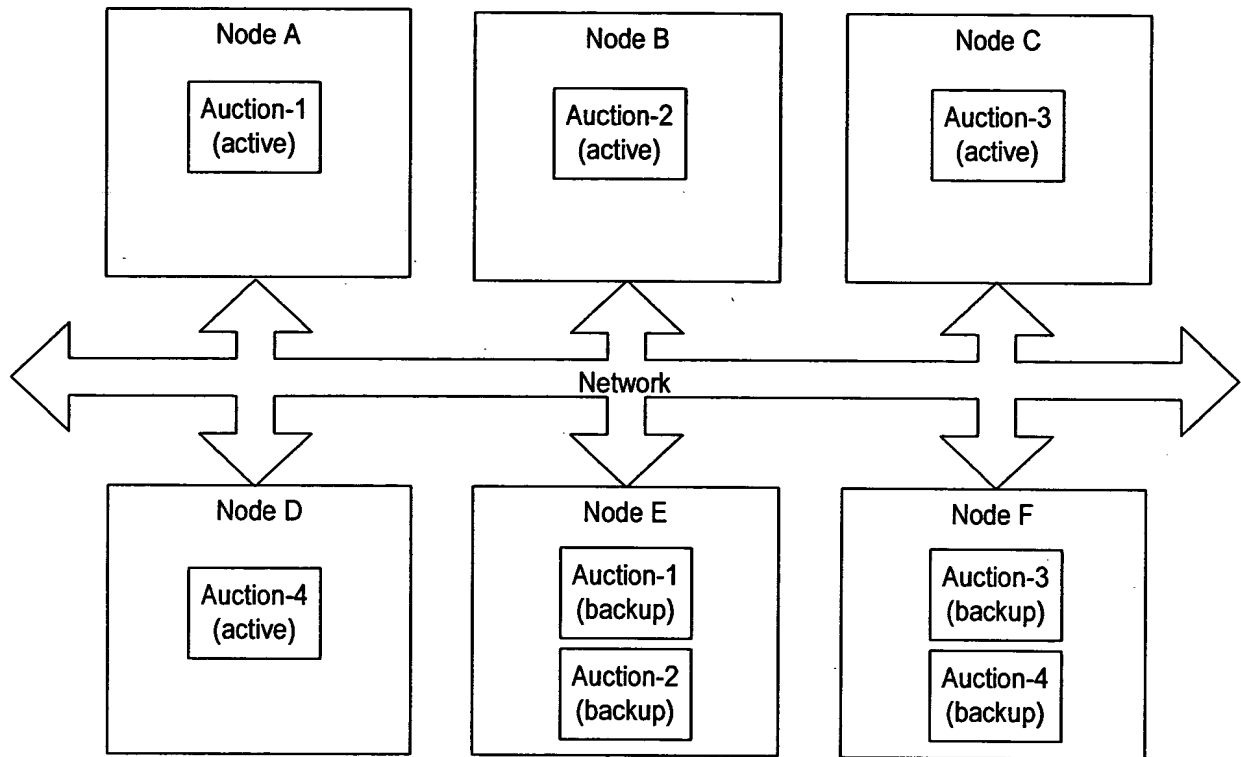
Net1NG = (Node A, Node B, Node C)
Net2NG = (Node D, Node E, Node F)
RG1 = (Net1NG, Net1NG)
RG2 = (Net2NG, Net2NG)
RC1 = (HotStandby : RG1)
RC2 = (HotStandby : RG1, RG2)
Associate RC1 with Cell EM Definition
Associate RC2 with Dir EM Definition

Fig 45



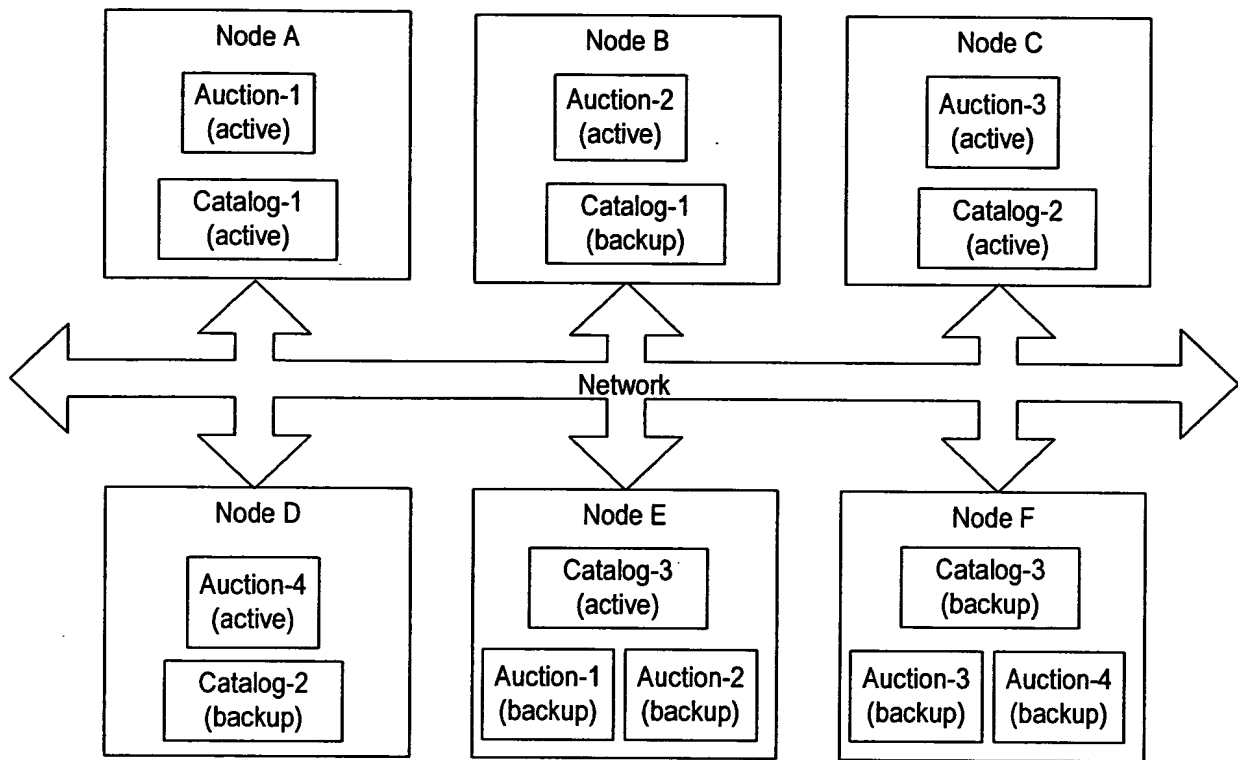
DISKNG = (Node A, Node B)
NODISKNG = (Node C, Node D, Node E, Node F)
DISKRG = (DISKNG, DISKNG)
NODISKRG = (NODISKNG, NODISKNG)
DISKRC = (HotStandby : DISKRG)
NODISKRC = (HotStandby : NODISKRG)
Associate DISKRC with Catalog EM Definition
Associate NODISKRC with Auction EM Definition

Fig 46



NG1 = (Node A, Node B, Node C, Node D)
NG2 = (Node E, Node F)
RG = (NG1, NG2)
RC = (ColdStandby : RG)
Associate RC with Auction EM Definition

Fig 47



NG1 = (Node A, Node B, Node C, Node D)
NG2 = (Node E, Node F)
NG3 = (Node A, Node B, Node C, Node D, Node E, Node F)
RG1 = (NG1, NG2)
RG2 = (NG3, NG3)
RC1 = (ColdStandby : RG1)
RC2 = (HotStandby : RG2)
Associate RC1 with Auction EM Definition
Associate RC2 with Catalog EM Definition

Fig 48

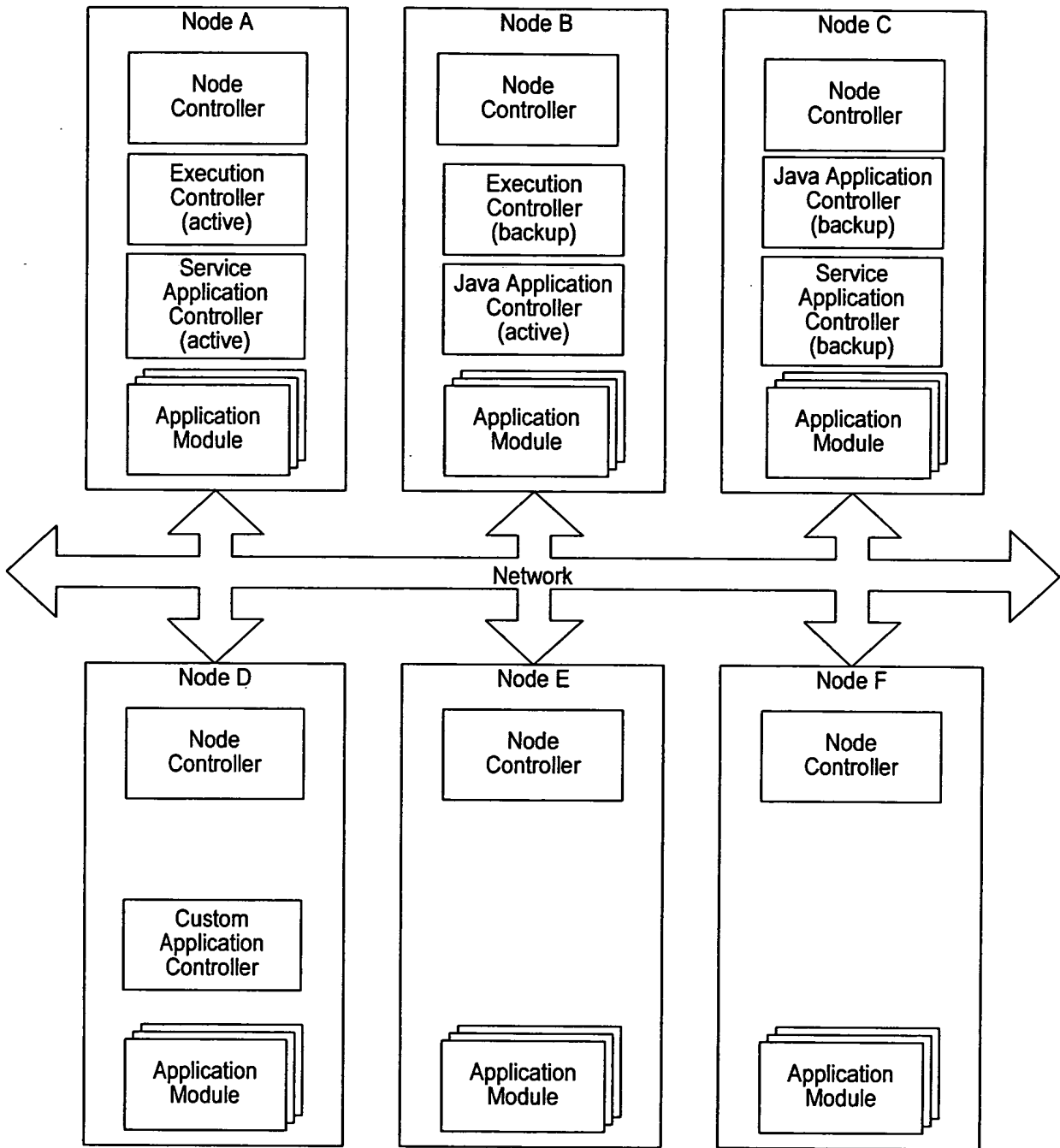


Fig 49

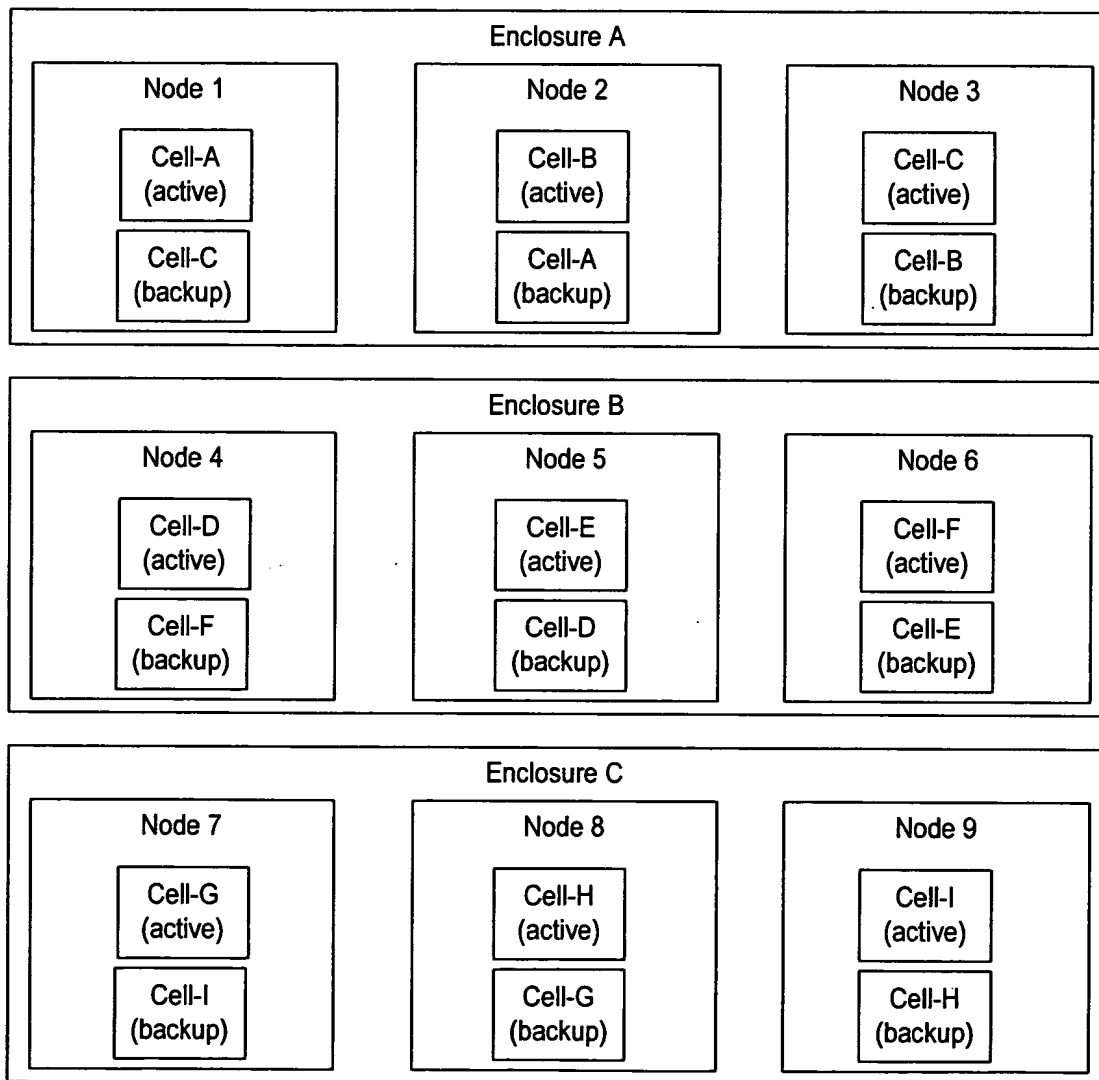
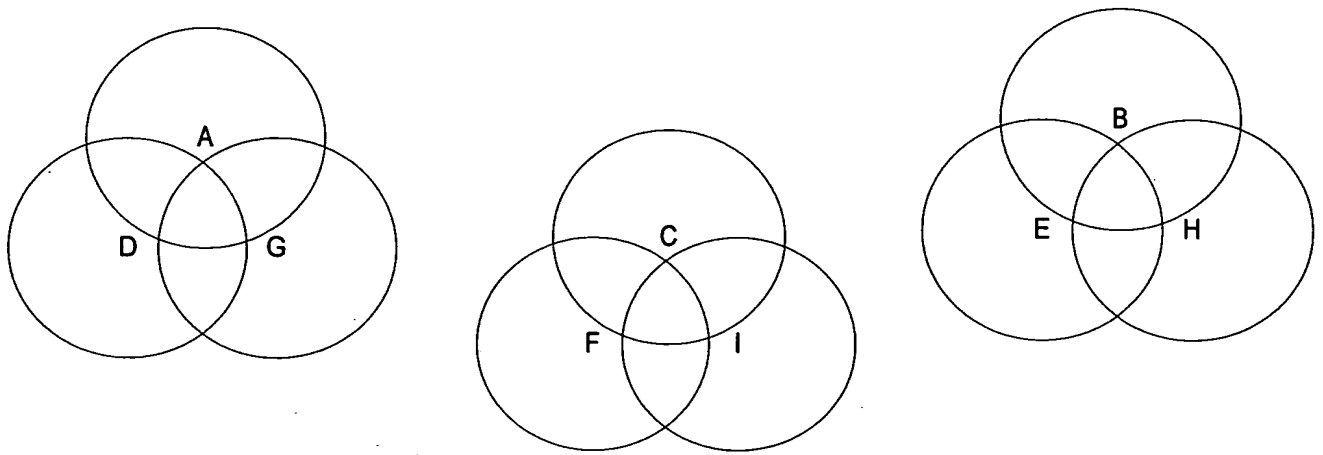


Fig 50

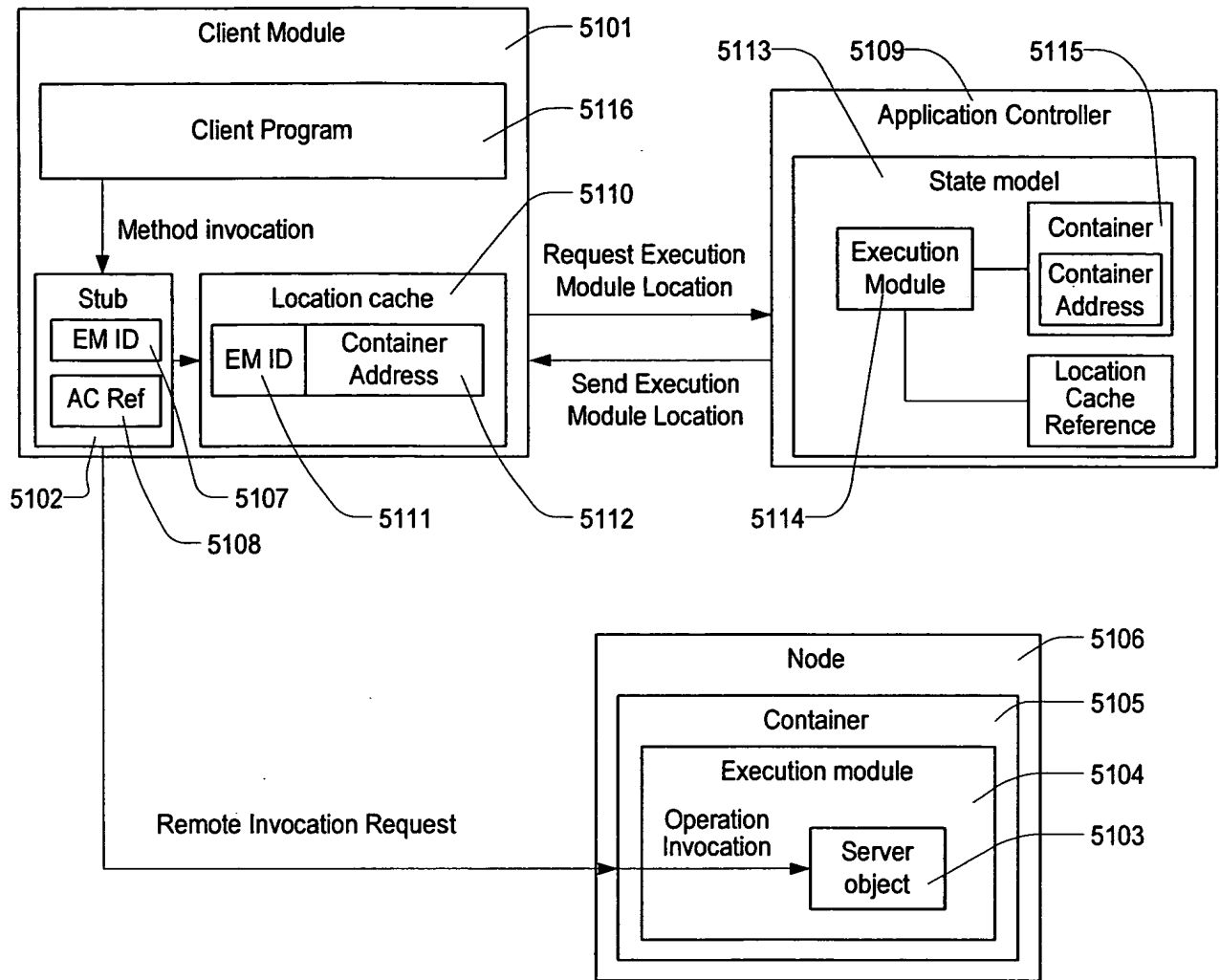


Fig 51

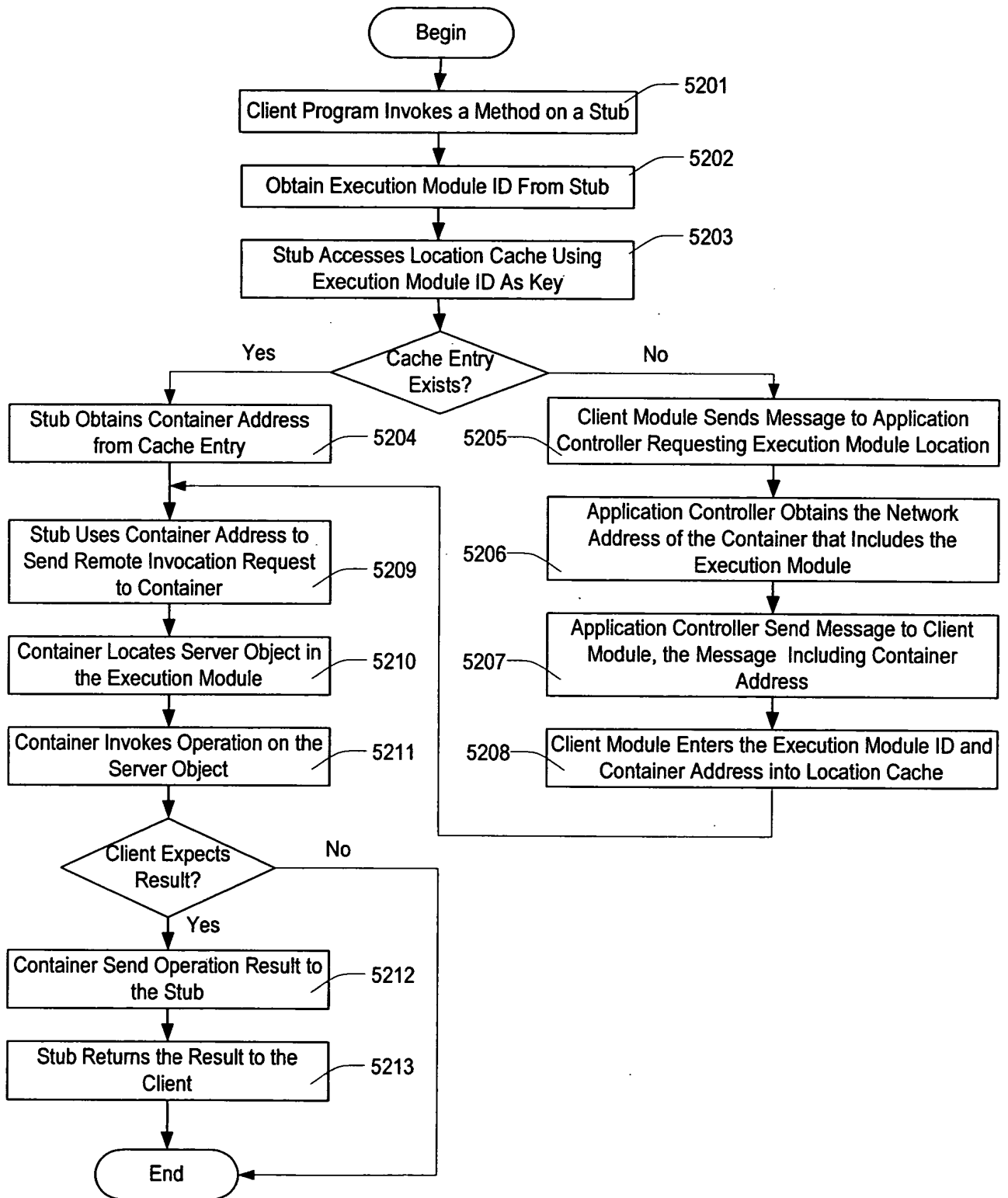


Fig 52

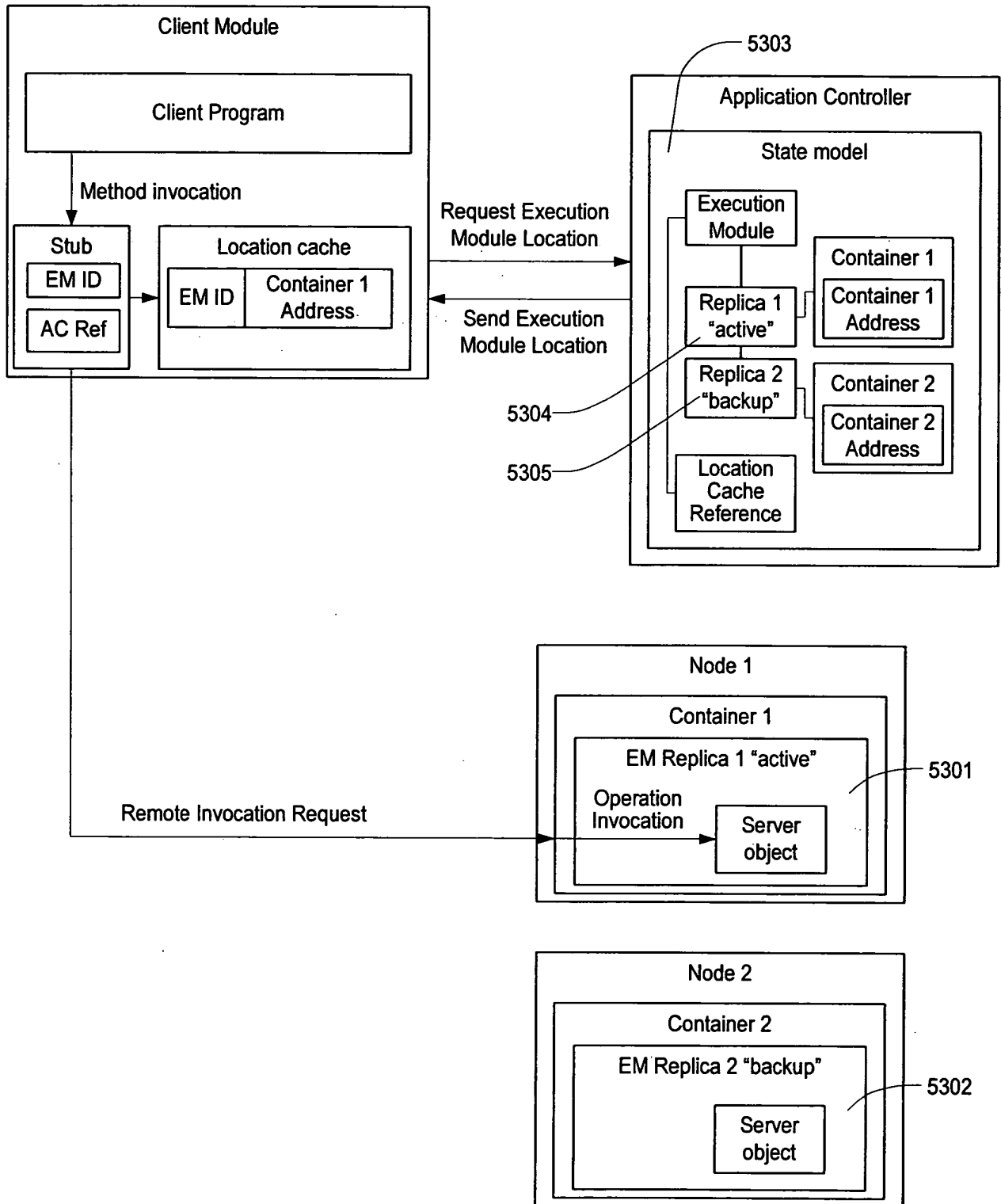


Fig 53-A

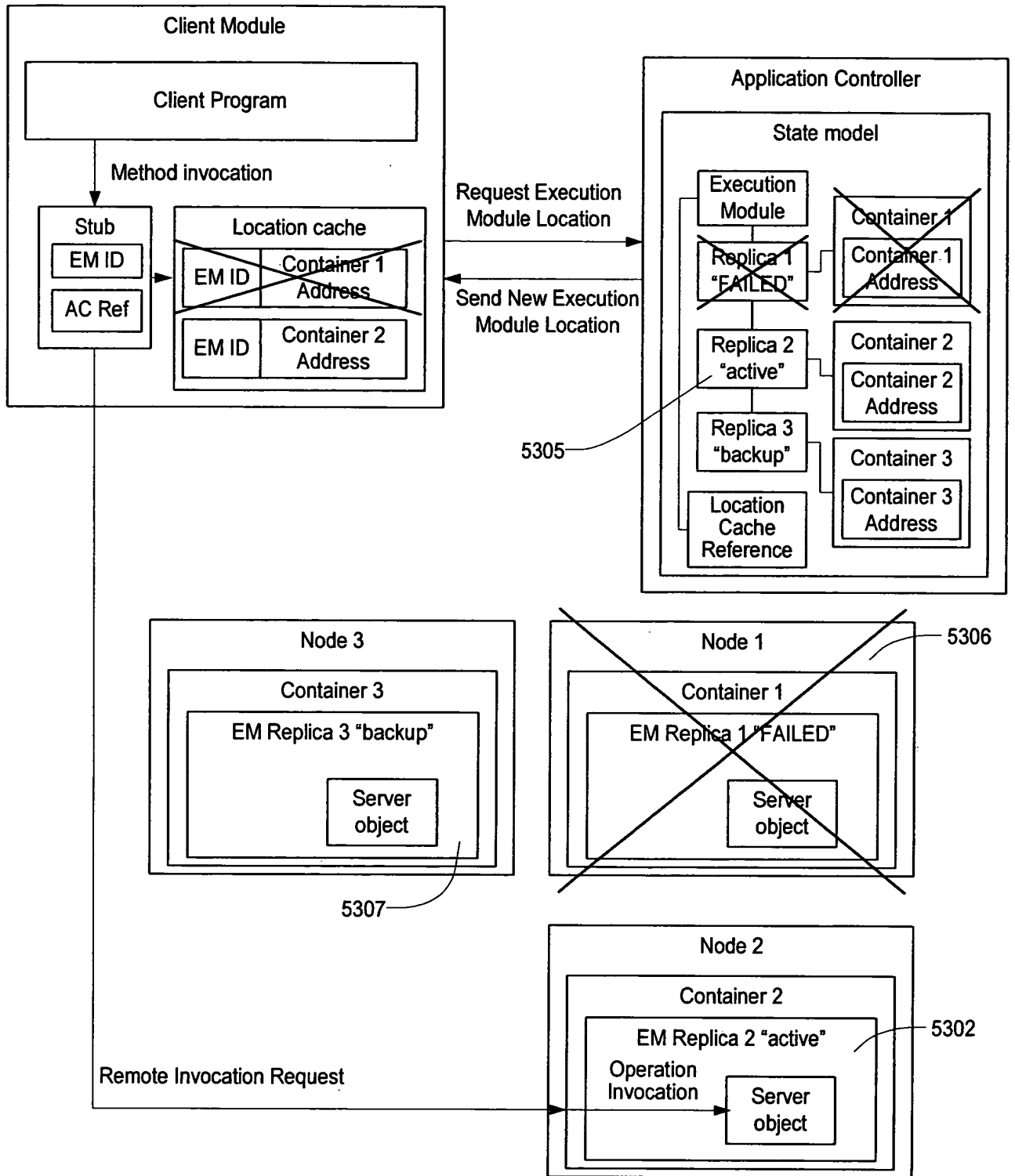


Fig 53-B

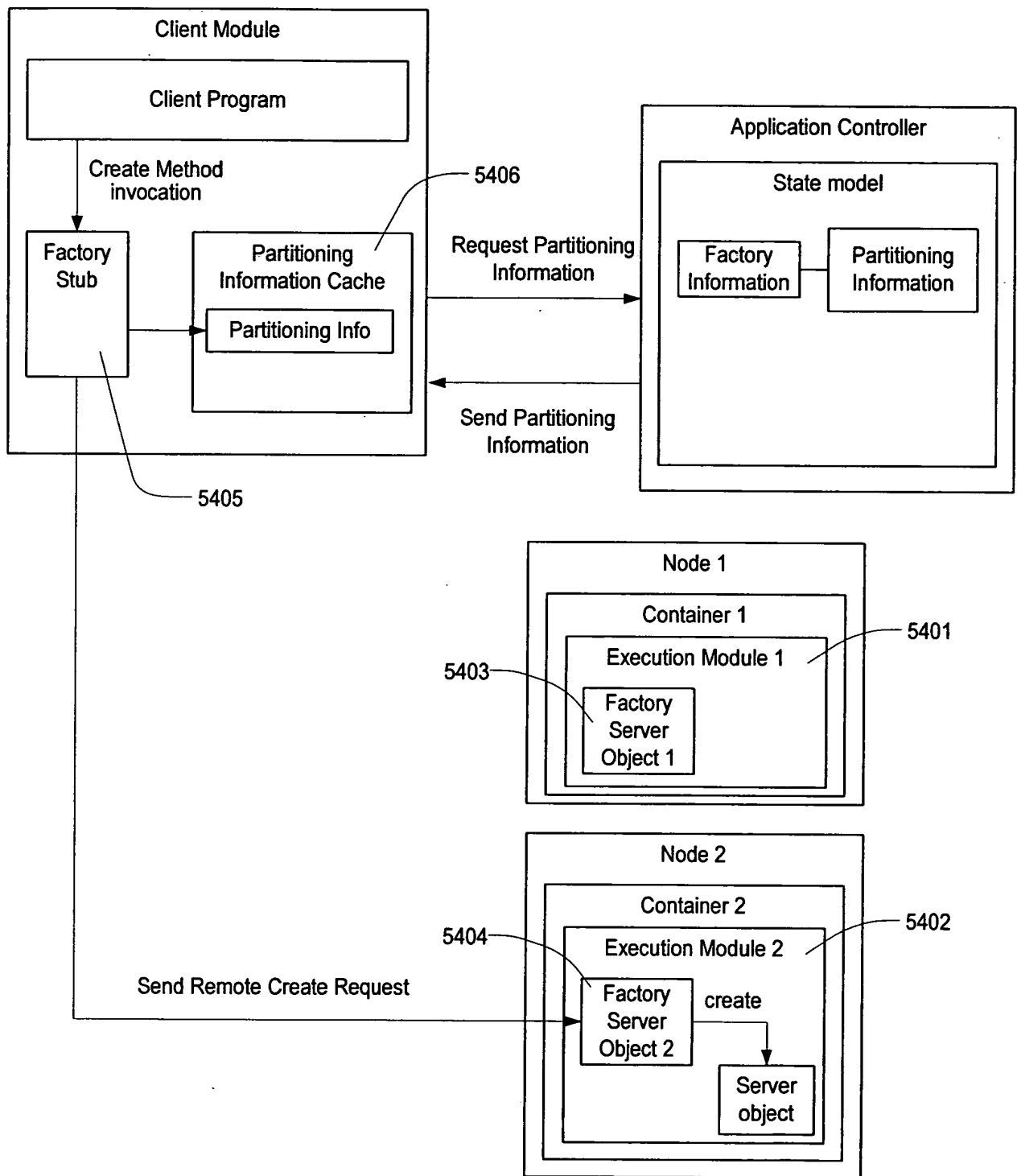


Fig 54

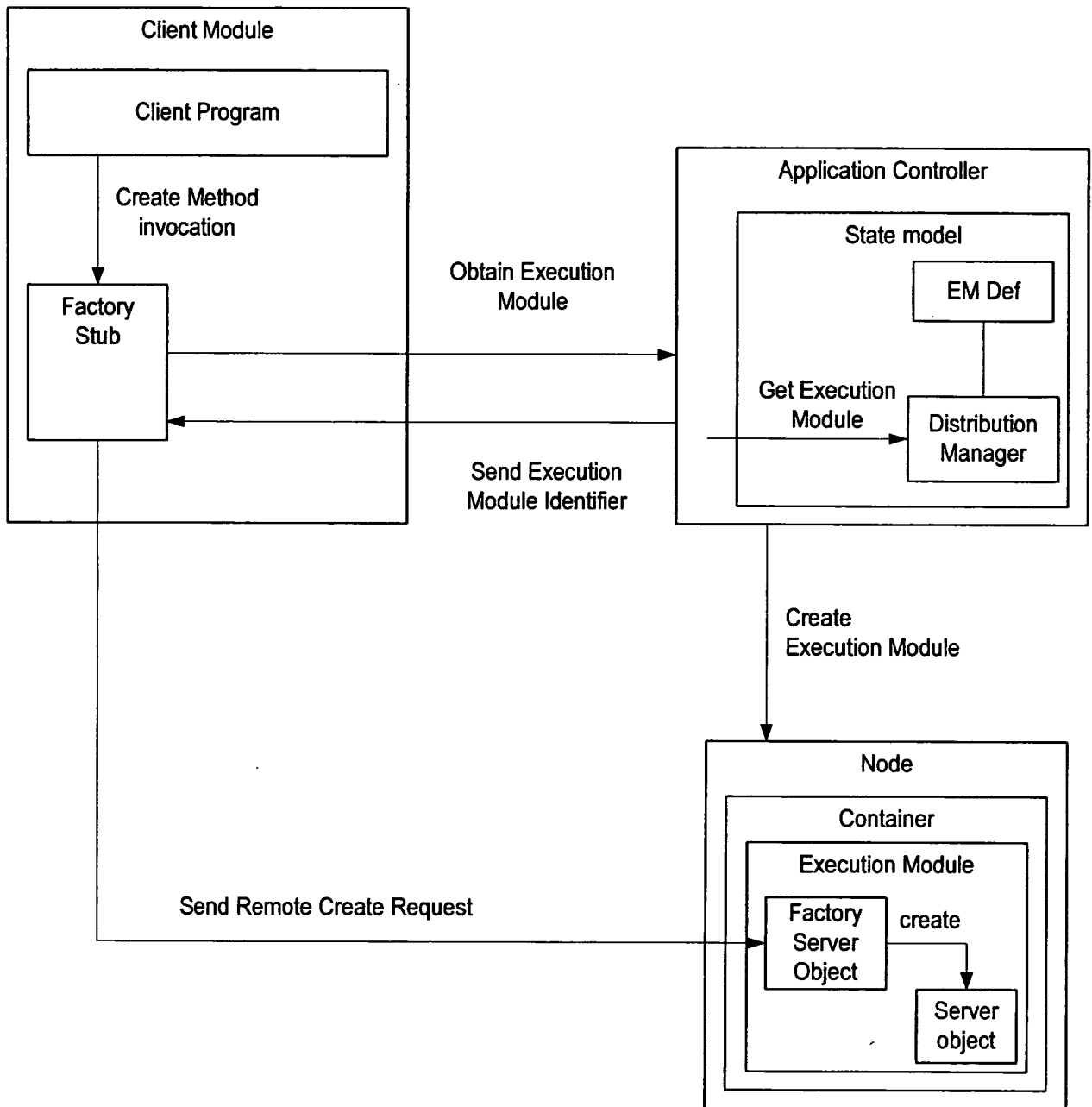


Fig 55